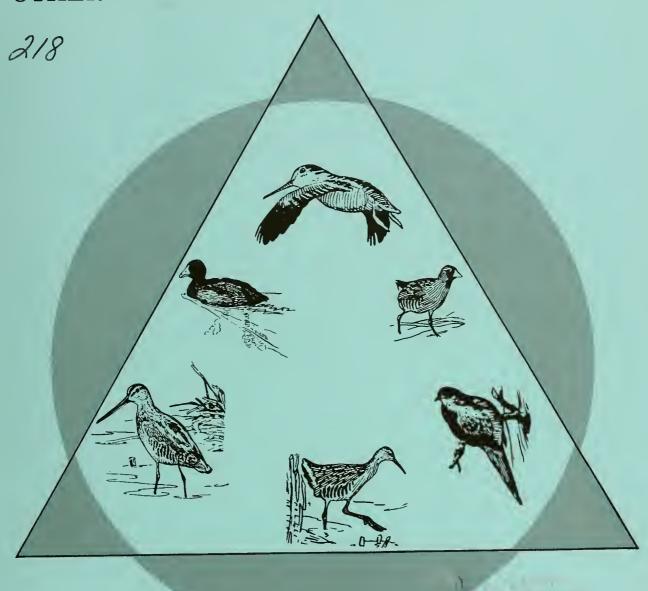
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By Elwood M. Martin



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Hunting and Harvest Trends for Migratory Game Birds Other than Waterfowl: 1964-76

by

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Abstract

Hunting activity and harvest estimates for 10 species or groups of migratory game birds other than waterfowl, based on data collected for 13 seasons (1964-76) in the Service's Annual Questionnaire Survey of U.S. Waterfowl Hunters, are presented. The 1964-75 data, available in time for additional analysis, are discussed in terms of their usefulness as index values for detecting short-term changes and long-term trends and demonstrating regional differences. Species or groups for which estimates were obtained include the white-winged dove (Zenaida asiatica), bandtailed pigeon (Columba fasciata), mourning dove (Zenaida macroura), American woodcock (Philohela minor), common snipe (Capella gallinago), sandhill crane (Grus canadensis), sora (Porzana carolina), other rails, gallinules, and American coot (Fulica americana). Among an average annual population of 2,013,300 duck stamp purchasers (1964-75), the mourning dove was the most popular of these game birds (averaging 478,000 hunters per year), followed by the coot (172,600 hunters), woodcock (168,700 hunters), snipe (74,600 hunters), band-tailed pigeon (25,400 hunters), white-winged dove (23,700 hunters), rails other than the sora (14,300 hunters), sora (6,300 hunters), gallinules (4,600 hunters), and crane (4,000 hunters). The average annual harvest index (unadjusted for reporting biases), for each species during this period was 12.05 million mourning doves, 1.17 million coots, 588,000 woodcock, 422,000 snipe, 314,000 white-winged doves, 192,000 band-tailed pigeons, 105,000 rails other than the sora, 32,100 soras, 26,400 gallinules, and 7,200 cranes. Several significant year-to-year changes were detected in mourning dove and woodcock average annual bag estimates at the management unit-flyway level. A number of long-term trends were noted as well, including significant increases in the proportions of duck stamp buyers also hunting mourning doves (about 1% annually), woodcock (3%), snipe (2%), cranes (8%), and rails other than the sora (6%). Significant long-term changes in average annual bag included a decrease for band-tailed pigeons in the three Pacific coast States and an increase in the Atlantic Flyway and nationally for rails other than the sora. In addition, a significant long-term increase averaging 2% per year was noted in the ratio of duck stamp sales to hunting license sales. High correlations obtained between certain results in the survey and the results of independent surveys are discussed. Various problems associated with using a waterfowl-hunter sampling frame as the basis for a survey of the hunting of migratory game birds other than waterfowl are evident throughout these analyses. The inescapable conclusion is that, although this survey of waterfowl hunters provides valuable data on the subject, a better sampling frame (or frames) for measuring the activity and success of all hunters of migratory game birds other than waterfowl is needed to meet the high standards now being set for the management of this valuable resource.

Since 1964, the U.S. Fish and Wildlife Service has collected information on the hunting of most migratory game birds other than waterfowl through its Annual Questionnaire Survey of U.S. Waterfowl Hunters. Ten species or groups of such birds are now included on the questionnaire: white-winged dove (Zenaida asiatica), band-tailed pigeon (Columba fasciata), mourning dove (Zenaida macroura), American woodcock (Philohela minor), common snipe (Capella gallinago), sandhill crane (Grus canadensis), sora (Porzana carolina), other rails, gallinules, and American coot (Fulica americana). In addition, the barnyard pigeon or rock dove (Columba livia) has been included since 1967 to reduce the apparent tendency to report them as band-tailed pigeons; rock dove harvest data are not included in this report.

The population of duck stamp buyers is used in the absence of a more suitable sampling frame for hunters of migratory game birds other than waterfowl. It is incomplete in varying degrees depending on the geographic area and species of interest. Therefore, for most of these species, hunting activity and harvest figures obtained are index values, useful primarily as indicators of changes and trends and not as measurements of total hunting activity and success. Mac-Donald and Martin (1971) summarized survey data for the first 5 years, and a detailed description of the survey will be found there. These early estimates, with some revisions and corrections, are included here together with estimates for an additional 8 seasons. Information on coot hunting activity and success, as obtained in the waterfowl harvest survey since its inception in 1952, was not examined by MacDonald and Martin (1971) but is included here. Annual changes and long-term (1964-75) trends are examined briefly (estimates for the 1976-77 season became available after work on the 1964-75 data had been completed) and, for several species, data from this survey and several independent surveys are compared.

l gratefully acknowledge the help and advice of J. W. Artmann, U. S. Fish and Wildlife Service, in the planning and assembly of material for this report.

Procedures and Limitations

The survey and its analysis have remained essentially as reported by MacDonald and Martin (1971). Certain aspects, however, deserve closer examination or re-emphasis.

The Sampling Frame

The information source is the sample of duck stamp purchasers selected for the annual waterfowl harvest survey. M. F. Sorensen, Office of Migratory Bird Management, Laurel, Maryland, in an administrative report on sandhill crane hunting dated 7 July 1977, found that 71% of the 1976-77 season crane hunting permit holders also bought duck stamps. In most States, for hunters 16 years old or older, probably at least 90% of the coot hunters, somewhat fewer (75 to 90%?) rail, gallinule, and snipe hunters, and still fewer woodcock, dove, and pigeon hunters purchased duck stamps. Although these figures are speculative, they reflect the inconsistency of the relationship between waterfowl hunting and other migratory game bird hunting, an indication that waterfowl hunters form a poor sampling frame for hunters of other migratory game birds.

The possibility that some of the estimates presented here for waterfowl hunters may contain substantial response/nonresponse biases is a further complication. For example, both 1975 and 1976 surveys of all crane hunting permit holders (the best sampling frame one could hope to have) produced somewhat lower estimates of crane hunting activity and success than did the waterfowl hunter surveys (M. F. Sorensen and H. M. Reeves, Office of Migratory Bird Management. Laurel, Maryland, administrative report on sandhill crane hunting dated 9 July 1976; M. F. Sorensen, administrative report cited above). Such biases do not necessarily negate the value of data provided by waterfowl hunters as indicators of changes and trends, however.

The relative importance of waterfowl hunting to all hunting in each State (Table A-1) is obviously an important consideration in using the data obtained in the survey. The average proportion of all licensed hunters also buying duck stamps in 1964-75 was 13%, ranging from less than 1% (West Virginia) to over 51% (North Dakota). Furthermore, these percentages increased significantly in about one-half the States during this period; there were no significant decreases.

Obviously, waterfowl hunters will not be representative of all hunters in a State, and the problem is compounded when waterfowl hunters from the various States are combined to produce totals for larger units. However, basic information on the relative importance of each species to hunters and to individual States and on trends in harvest, particularly changes in its size and distribution, should be almost as apparent from a sample of waterfowl hunters as from a sample of all hunters. Ruos and Tomlinson (1968) developed a complicated procedure for extrapolating total dove harvest from dove harvest by waterfowl hunters, but some problems remained, and it was not practical to repeat this procedure every year or use it for other species. Clark (1972:13-14) calculated that less than 50% of the total U.S. woodcock harvest can be attributed to waterfowl hunters. In view of such problems, no attempt has been made to project estimates beyond

the waterfowl hunter framework for any of the species included in this report.

The Survey

Except for the addition of several species, the questionnaire design introduced in 1964 remained unchanged through 1968. A slightly revised design was tested concurrently with the original questionnaire in 1967 and 1968 and has been used exclusively since. Some differences in results attributable to questionnaire differences were noted and appropriate adjustments (unpublished report by E. M. Martin, Office of Migratory Bird Management, Laurel, Maryland, dated 17 December 1970) have been made to maintain comparability among years.

Harvest estimates for coots have routinely appeared in Federal reports on waterfowl hunting. Application of the bias-adjustment procedure developed for waterfowl in the 1950's by E. L. Atwood (mimeographed report dated September 1959 on file at Migratory Bird Management Office, Laurel, Maryland) resulted in a sizeable reduction (averaging 35%, see Benning et al. 1975:64) for response bias in coot harvest figures through the years. For the present report, the data on coot hunting activity and success were re-examined for all years of the waterfowl harvest survey and recalculated without bias adjustment; nor have bias adjustments been applied to data for other species. However, because coots have been handled like waterfowl since the survey began, coot data still differ somewhat from those for the other species included here. Active coot hunters were not identifiable, but successful coot hunters were. In addition, estimates of harvest by waterfowl hunters under 16 years of age (conservatively, an additional 9%) and of unretrieved kill are available from this survey for coots but not for the other nonwaterfowl species.

Analysis of Results

To demonstrate potential uses of the survey results, I provide several comparatively simple examples of data analyses. These are intended to show the strengths and weaknesses of the data and point the way for further analysis by those interested in particular aspects.

The approaches used fall into two general categories: (1) seeking evidence of significant differences and changes or trends on the basis of this survey alone, and (2) evaluating the degree to which the results of this survey are supported by (correlated with) the results of independent surveys. The independent surveys examined include other Fish and Wildlife Service surveys and selected State surveys. Many

States collect harvest data on at least some of the species treated here, and more detailed comparisons with these data are encouraged. A better understanding of the harvest, and of each survey, should result.

Survey Results and Discussion

Activity and harvest estimates for the hunting of other migratory game birds by waterfowl hunters in the United States from 1964 through 1976 are summarized by species in Table 1. A more detailed summary (by State, flyway, and management unit) of the 1964-75 data available for inclusion in the additional analyses noted above appear in Appendix A, and similar detail for the 1976-77 season, which became available later, are presented in Appendix B. Statistical examinations of differences and trends are summarized for each species in Tables 2 through 6. The results are discussed briefly in this section by species.

White-winged Dove

During 1966-75, in the five States in which white-winged dove hunting has been permitted, an average of 23,700 waterfowl hunters (7.7% of the duck stamp buyers) harvested about 313,500 white-winged doves (13.2 birds per hunter) annually (Table A-2). Both the percentage hunting white-winged doves and the average bag decreased slightly during the period, but neither change was statistically significant (Table 2). However, on an individual State basis, decreases in the percentage hunting in Texas and the average bag in Arizona were significant, if all statistical assumptions, which tend to be weakest for the less widely hunted species, are met.

Band-tailed Pigeon

These game birds have been hunted in seven States since 1970; only three States participated before 1968. In 1975, an estimated 19,200 (5.2%) of the waterfowl hunters in these seven States also hunted band-tailed pigeons, bagging about 107,900 or 5.6 each (Table A-3). The 1975 figures were the lowest obtained during the 1966-75 period. In the three States for which data for the entire period are available, both the percentage hunting and the average bag showed downward trends (Table 2). These trends were detected in all three States but were significant only in the Washington and combined area average bag figures.

Mourning Dove

In the 12 seasons 1964-75, an average of 478,000

Table 1. Summary of annual activity and success estimates for hunters of migratory game birds other than waterfowl in the United States who also purchased duck stamps: 1964-76.

Species White-winned dove													
White-winged dove	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
Number hunting Percent hunting Total bag Average bag	[Not included in survey]	ided in 197]	26,800 9.7 417,700 15.6	26,100 9.0 462,100 17.7	21,100 7.4 269,100 12.8	23,200 7.3 265,600 11.4	26,200 7.1 342,000 13.1	25,300 7.3 251,100 9.9	22,100 7.2 274,000 12.4	17,700 6.1 239,400 13.5	23,300 7.9 273,700 11.8	25,500 8.4 340,600 13.4	22,200 7.4 300,700 13.6
Band-tailed pigeon Number hunting Percent hunting Total bag Average bag	[Not included in survey]	ided in	26,600 9.9 227,800 8.6	23,000 8.5 189,400 8.2	25,200 8.5 221,300 8.8	25,900 7,9 192,100 7.4	25,700 6.0 189,500 7.4	29,700 7.2 237,000 8.0	31,200 8.6 253,200 8.1	24,100 6.7 176,100 7.3	23,500 6.5 168,500 7.2	19,200 5.2 107,900 5.6	19,300 5.4 104,000 5.4
Mourning dove Number hunting Percent hunting Total bag (thousands) Average bag	372,400 24.14 9,158.0 24.59	339,300 22.28 8,690.1 25.61	405.000 22.96 11,238.1 27.75	443,300 23.33 11,581.4 26.12	417,800 23.26 10,216.3 24.45	497,900 24.51 12,718.9 25.54	566,400 23.82 14,056.2 24.82	558,600 23.57 13,457.9 24.09	537,800 25.19 14,209.4 26,42	494,200 24.30 12,282.8 24.85	532,000 25.07 12,963.5 24.37	571,200 26.66 13,986.2 24.49	594,800 28.96 15,117.3 25.42
American woodcock Number hunting Percent hunting Total bag Average bag	119,900 9.83 452,600 3.77	112,400 9.50 376,600 3.35	116,300 8.37 401,500 3.45	137,500 9.04 497,100 3.61	132,300 9.41 485,200 3.67	174,900 10.88 589,700 3.37	209,400 10.88 666,400 3.18	206,100 10.64 667,200 3.24	192,700 11.00 723,200 3.75	187,800 11.38 658,400 3.51	215,500 12.41 756,100 3.51	220,200 12.58 775,400 3.52	212,100 12.67 822,000 3.87
Common snipe Number huuting Percent hunting Total bag Average bag	56,100 3.63 355,300 6.34	47,500 3.10 254,200 5.35	58,600 3.30 329,300 5.62	65,200 3.41 407,500 6.25	59,400 3.29 330,100 5.56	85,300 4.17 493,500 5.78	94,600 3.96 529,100 5.59	79,300 3.33 417,300 5.26	85,300 3.97 466,100 5.46	79,300 3.87 447,500 5.65	85,500 4.00 471,700 5.52	99,200 4.60 564,000 5.69	106,300 5.13 670,500 6.31
Sandhill crane Number huuting Percent huuting Total bag Average bag	[Not included in survey]	ıded in :y}	[Survey incomplete]	y, ete]	2,300 0.9 3,000 1.3	3,500 1.2 5,400 1.5	3,600 1.1 5,600	3,900 1.1 6,400	3,000 0.9 3,900 1.3	3,800 1.1 11,700 3.1	5,400 1.5 9,200 1.7	6,400 1.7 12,200 1.9	7,300 2.0 9,500 1.3
Sora Number hunting Percent hunting Total bag Average bag	5,900 0.49 37,700 6.36	5,000 0.43 26,600 5.28	5,000 0.36 30,400 6.14	5,600 0.37 29,700 5.32	3,800 0.27 13,400 3.55	6,500 0.40 29,500 4.54	8,100 0.42 27,100 3.36	5,500 0.28 31,200 5.66	7,400 0.42 47,200 6.35	6,900 0.42 37,100 5.35	7,300 0.42 30,400 4.15	8,800 0.50 44,900 5.08	9,200 0.55 39,100 4.25
Other rails Number hunting Percent bunting Total bag Average bag	8,000 0.66 41,300 5.15	5,800 0.49 24,100 4.13	6,700 0.48 50,600 7.58	10,800 0.71 94,300 8.70	10,400 0.74 67,400 6.49	19,900 1.24 130,000 6.52	21,400 1.11 175,200 8.20	14,900 0.77 118,300 7.92	19,900 1.14 147,100 7.40	18,000 1.09 148,100 8.25	16,400 0.94 108,300 6.61	18,900 1.08 160,300 8.49	19,800 1.18 165,600 8.38
Gallinules Number hunting Percent hunting Total bag Average bag	3,700 0.24 20,600 5,61	3,800 0.25 16,800 4.41	3,200 0.18 18,900 5.87	4,100 0.22 23,300 5.65	2,500 0.14 10,100 4.02	4,500 0.22 15,000 3.32	7,000 0.29 38,500 5.50	3,800 0.16 23,900 6.31	4,500 0.21 31,100 6.88	5,300 0.26 42,500 7.95	6,000 0.28 35,000 5.80	6,300 0.29 41,700 6.62	5,800 0.28 63,500 11.00
American coot ^a Number successful Percent successful Total bag (thousands) Average bag	110,500 7.16 765.7 6.93	125,400 8.19 979.9 7.81	174,000 9.80 1,508.6 8.67	172,700 9.04 1,192.2 6.90	110,300 6.10 673.2 6.10	179,400 8.77 1,201.9 6.70	209,300 8.75 1,659.8 7.93	188,400 7.90 1,124.0 5.97	189,700 8.82 1,332,4 7.02	139,000 6.78 921.3 6.63	168,100 7.86 1,251.9 7.45	200,900 9.31 1,488.0 7.41	157,500 7.60 1,273.2 8.08

*Numbers of successful coot hunters include only duck stamp purchasers while harvest estimates include birds taken by waterfowl hunters of all ages.

Table 2. Summary of statistical evidence of long-term trends in the hunting of other migratory game birds by waterfowl hunters in those States that had an open season on the designated species every year during the period indicated.

			entage hur each specie		<i>E</i>	Average ba	g
Species and period	Area included	Period average ^a	Average annual change	t value ^b	Period average ^a	Average annual change	t value ^b
White-winged dove (1966-75)	5 States	7.75	-0.15	-1.44	13.15	-0.35	-1.59
Band-tailed pigeon (1966-75)	3 States	8.63	-0.13	-1.03	7.85	-0.20	-2.76*
Mourning dove (1964-75)	Eastern Manage. Unit Central Manage. Unit Western Manage. Unit Total	41.23 44.79 33.44 39.80	0.37 0.51 0.03 0.37	4.30** 3.66** 0.42 4.69**	28.13 27.74 19.44 25.68	-0.14 -0.13 -0.19 -0.09	-1.43 -0.83 -3.34**
American woodcock (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Total	20.26 10.73 1.54 12.20	0.50 0.39 0.07 0.38	6.77** 3.62** 2.63* 6.03**	3.45 3.58 2.58 3.51	-0.02 0.01 -0.01 -0.01	-0.83 0.33 -0.10 -0.37
Common snipe (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Pacific Flyway Total	3.94 4.26 2.39 3.87 3.78	0.03 0.08 0.10 0.18 0.09	1.33 1.84 2.52* 5.28** 3.15*	6.48 5.22 5.39 6.05 5.68	-0.09 -0.05 0.02 0.04 -0.04	-1.12 -1.52 0.22 0.68 -1.38
Sandhill crane (1968-75)	7 States	1.25	0.10	2.88*	1.79	0.12	1.37
Sora (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Total	0.71 0.36 0.28 0.44	-0.04 0.01 0.02 -tr.	-4.83** 1.66 1.27 -0.17	6.52 4.32 3.46 5.12	0.13 -0.12 -0.32 -0.09	0.94 -1.20 -1.62 -1.09
Other rails (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Total	1.59 0.89 0.48 1.00	0.06 0.08 0.02 0.06	3.15* 4.11** 0.75 3.27**	9.66 3.58 3.85 7.20	0.38 0.01 0.19 0.23	2.88* 0.33 1.83 2.37*
Gallinules (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Pacific Flyway Total	0.38 0.30 0.15 0.14 0.27	-0.03 0.03 0.02 tr. 0.01	-3.76** 3.31** 2.63* 1.15 1.77	5.32 6.36 4.10 5.53 5.95	-0.20 0.44 0.31 0.11 0.19	-1.54 2.79* 1.76 0.42 1.84
American coot ^c (1964-75)	Atlantic Flyway Mississippi Flyway Central Flyway Pacific Flyway Total	6.60 10.44 5.05 8.34 8.21	-0.10 -0.03 0.18 0.13 0.01	-0.81 -0.21 2.78* 2.34* 0.14	6.38 7.92 4.02 7.41 7.13	0.02 -0.06 0.04 0.01 -0.04	0.45 -0.71 1.55 0.08 -0.56

^aAll years weighted equally in regression calculations.

waterfowl hunters (24.2% of all duck stamp buyers) harvested slightly over 12 million mourning doves (25.2 doves per hunter) annually (Tables A-4, A-5). Almost 40% of the duck stamp buyers in those States in which dove hunting was permitted throughout this period hunted mourning doves. The proportion increased significantly (about 1% annually, a crude indi-

cator of change obtained by expressing average annual change as a percentage of the period average) during this period in the Eastern and Central Management units and in the overall figures. In 13 of 30 States there were significant increases, but in 1 (Louisiana) a significant decrease was indicated (Table 3).

Success rates were lowest (averaging 19.4 doves per

 $b*Indicates\ an\ average\ change\ significantly\ different\ from\ zero\ at\ the\ 95\%\ confidence\ level;\ **denote\ the\ 99\%\ confidence\ level.$

cCoot data based on successful coot hunters; data for other species based on active hunters of respective species.

Table 3. Statistical evidence of long-term trends in the hunting of mourning doves and American woodcock by waterfowl hunters in those States that had an open season on the designated species every year during the period 1964-75.

	Percenta	Percentage hunting doves	g doves	Aver	Average dove bag	bag		Percentage hunting woodcock	hunting v	voodcock	Average	Average woodcock bag	k bag
Management Unit and State	Period	Average annual	t valneb	Period	Average annual	t valueb	Flyway and State	Period average ^a	Average annual change	t value ^b	Period average ^a	Average annual change	t value ^b
Conce	average	cinainge	variac	average	Circuit				9		202	0	
Eastern Alabama	55.61	0.65	9.40*	43.02	-0.19	-033 ₽	Atlantic Connecticut	41.62	-0.13	-0.38	3.26	-0.14	-4.59**
Delaware	36.08	0.23	0.95	15.02	-0.02	-0.09	Delaware	10.82	0.34	2.36*	2.56	t.	0.03
Florida	49.39	0.04	0.27	30.42	-0.31	-1.55	Florida	4.92	0.13	1.46	3.29	0.12	2.24*
Georgia	56.81	0.48	1.24	38.41	0.14	0.37	Georgia	11.79	0.48	2.98*	3.78	0.11	2.23*
Illinois	31.00	0.76	3.72**	21.09	0.36	2.04	Maine	34.62	1.17	5.71**	6.28	-0.18	-2.39*
Kentucky	49.85	0.63	1,55	40.60	-0.08	-0.26	Maryland	7.68	0.21	2.24*	2.75	0.03	0.67
Louisiana	35.13	-0.91	-3.87**		-0.59	-3.31**	Massachusetts	34.42	0.49	2.59*	3.58	0	0
Maryland	31.23	0.49	3.65**	17.33	90.0	0.52	New Hampshire	36.27	0.41	1.54	4.08	60.0-	-1.35
Mississippi	58.62	0.67	3,05*	41.41	-0.33	-1.06	New Jersey	20.70	0.78	4.94**	3.90	0.12	3.38**
North Carolina	58.10	0.81	3.97	34.05	-0.15	-0.17	New York	25.96	90.0	0.57	3.13	tr.	0.20
Pennsylvania	32.05	1.64	7.45**		0.17	1.28	North Carolina	8.66	0.26	3.31 **	3.99	-0.01	-0.30
Rhode Island	29.29	3.29	13.91**	12.88	0.27	0.94	Pennsylvania	25.05	99.0	2.97*	2.52	-0.04	-2.17
South Carolina	59.05	0.75	2.93*	40.04	0.49	0.97	Rhode 1sland	21.72	0.82	3.51**	3.29	-tr.	-0.04
Tennessee	53.06	1.11	3.73**		0.44	1.60	South Carolina	10.30	0.28	1.70	3.70	-0.03	-0.42
Virginia	48.33	0.04	0.13	26.22	-0.13	-1.02	Vermont	25.87	0.31	1,05	4.36	-0.02	-0.24
West Virginia	29.12	1.33	1.70	12.67	0.55	3.07*	Virginia	7.88	0.42	5,40**	3,22	0.08	1.16
Subtotal	41.23	0.37	4.30**	28.13	-0.14	-1.43	West Virginia	18.37	1.30	2.98*	3.91	0.40	5.25*
							Subtotal	20.26	0.50	6.77	3.45	-0.02	-0.83
Central							Mississippi						
Arkansas	30.43	0.74	2.21	28.07	0.20	0.52	Alabama	9.20	0.36	2.52*	3.44	0.02	1.06
Colorado	30.97	0,64	2.83*	14.89	0.05	0.49	Arkansas	3.72	0.11	1.30	3.39	-0.03	-0.48
Kansas	52.49	0.35	1.15	21.97	0.23	2.04	Illinois	3.69	0.32	5.12**	2,65	0.04	0.91
Missouri	36.02	0.56	2.23*	22.09	0.34	2.11	Indiana	10.57	0.89	6.49**	2.87	0.05	0.44
New Mexico	59.98	0.04	0.08	31.02	-0.02	-0.05	Kentucky	4.57	0.44	4.03**	3.02	-0.01	-0.08
Oklahoma	49.02	0.83	3.32**	28.99	0.05	0.26	Louisiana	11.17	-0.04	-0.27	60.9	0.05	0.49
Texas	53.07	0.51	1.85	33.44	-0.40	-1.70	Michigan	27.08	0.67	1.91	3.29	90.0	1.21
Subtotal	44.79	0.51	3.66**	27.74	-0.13	-0.83	Minnesota	4.66	0.54	6.78	2.55	0.01	0.19
							Mississippi	8.18	0.21	1.69	4.76	0.03	0.33
Western							Missouri	2.97	0.07	1.33	2.47	90.0	1.85
Arizona	61.12	0.93	2.02	38.07	-0.32	-1.24	Ohio	13.98	-0.09	-0.36	3.05	-0.10	-2.50*
California	42.66	-0.07	-0.56	21.87	-0.17	-1.73	Tennessee	3.77	0.35	5.10**	2.53	0.10	1.56
Idaho	28.15	99.0	4.17**	14.25	-0.05	-0.45	Wisconsin	16.00	0.73	2.95*	3.07	0.01	0.40
Nevada	42.07	0.16	0.56	18.00	-0.34	-2.72*	Subtotal	10.73	0.39	3.62**	3.58	0.01	0.33
Oregon	22.78	0.22	0.87	12.64	-0.25	м.	Central						
Utah	37.05	0.13	0.49	11.96	-0.01	-0.08	Kansas	1.27	0.09	1.60	1.43	0.05	0.51
Washington	16.01	-0.32	-1.68	14.01	-0.34	-3.40**	Oklahoma	1.86	0.22	4.92**	2.51	0.12	1.01
Subtotal	33.44	0.03	0.42	19.44	-0.19	-3.34**	Texas	1.55	0.03	0.79	2.95	0.01	0.12
							Subtotal	1 54	0.07	*656	9 58	0.01	01.0-
							Cancara	1.0.1	0.0	2.03	200.7	-0.01	01.0

 a All years weighted equally in regression calculations. b* Indicates an average annual change significantly different from zero at the 95% confidence level; **denote the 99% confidence level.

hunter per season) in the Western Management Unit (Table A-5), and decreased significantly (about 1% annually) during the period (Table 3). Elsewhere, Louisiana showed a significant decrease while West Virginia showed a significant increase. The overall downward trend was not statistically significant, but, as noted by Clark (1972:13) with reference to woodcock, such a decrease in average success as participation increases would not be surprising, since most of the additional hunters must be newcomers to the sport and relatively inexperienced. In year-to-year comparisons, significant increases in average bag were indicated for the 1966-67 and 1972-73 seasons whereas a significant decrease was recorded for 1967-68 (Table 4).

American Woodcock

During 1964-75 an average of 168,700 waterfowl hunters (10.6% of the duck stamp buyers in the three eastern flyways; 12.2% in those States having a woodcock season) harvested about 587,500 woodcock (3.5 per hunter) annually (Tables A-6, A-7). Waterfowl hunters in the Atlantic and Mississippi flyways participated in woodcock hunting in about equal numbers, but, although the rate of participation in the Atlantic Flyway has been about twice that in the Mississippi Flyway (20% vs. 10%), success rates have differed little (3.4 vs. 3.6 birds per hunter per season). The average annual harvest by waterfowl hunters exceeded 50,000 in four States, of which Michigan was the leader (89,000).

The proportion of waterfowl hunters also hunting woodcock has increased significantly since 1964 in all three flyways and in 19 of the 33 States in which woodcock have been hunted regularly (Table 3); the increase has averaged about 3% per year. Significant long-term changes in average bag were indicated in seven States but not at flyway or U.S. levels. Indications of significant changes from the previous year in average annual bag (Table 4) were found in the Atlantic Flyway in 1969 (decrease) and the overall 1972 average (increase).

Common Snipe

Annually, an average of 3.7% (74,600) of the duck stamp purchasers in the United States hunted snipe during 1964-75, bagging about 422,000 snipe (5.7 per hunter) each year (Tables A-8, A-9). The average annual snipe harvest by waterfowl hunters was highest in Louisiana (96,000) and also exceeded 50,000 in two other States. The proportion of waterfowl hunters also hunting snipe increased significantly by more than 2% per year during this period, with significant increases recorded for 15 of 46 States; the increases appeared to

become progressively larger from east to west across the country (Table 5). No long-term trend was evident in the average snipe bag. Significant increases were recorded in two States (Georgia, Mississippi), as were significant decreases (Nebraska, North Carolina).

Sandhill Crane

Currently, sandhill cranes are hunted in nine States, and this survey has included all crane hunting States since 1968 when seven States were involved. During 1968-75, duck stamp buyer participation in crane hunting in the seven States continuously involved averaged 1.2% (4,000 hunters), and they bagged an average of 7,200 cranes (1.8 per hunter) each season. Texas was the most important State for crane hunting, accounting for 39% of the hunters and 58% of the harvest during this 8-year period (Table A-10). The proportion of duck stamp buyers participating in the crane hunt in these seven States increased significantly since 1968 (averaging 8% annually); average bag has not changed significantly (Table 2).

Sora

An annual average of 0.4% (6,300) of the duck stamp buyers in the three eastern flyways hunted the sora during 1964-75, bagging about 32,100 birds (5.1 per hunter) each year (Tables A-11, A-12). Harvests averaged over 2,000 birds per year in only five States including Iowa, which did not have a rail season until 1972. Louisiana and New Jersey were the top States, each with harvests of 5,300 birds per year by duck stamp buyers. Both percentage hunting and average bag become progressively smaller from east to west across the country. The only statistically significant long-term change during this period was a decrease of almost 6% per year in percentage hunting in the Atlantic Flyway (Table 2).

Other Rails

Through the years, this category has included the king rail (Rallus elegans), clapper rail (R. longirostris), Virginia rail (R. limicola), yellow rail (Coturnicops noveboracensis), and black rail (Laterallus jamaicensis). In 1967, the black rail was omitted from the list of hunted species, followed a year later by the yellow rail, and these omissions continue. Very few birds of either species have been taken by hunters. Also, in most noncoastal States, the king rail has not been hunted since 1967. Even before then, the king rail was rarely, if ever, important in the rail harvest (Sanderson 1977:99-101). Thus, although hunters were not asked to report separately any rails but the sora,

Table 4. Statistical evidence of year-to-year differences in the average annual bags of mourning doves and American woodcock by waterfowl hunters, 1964-75.

			Mourning	g dove		Ar	nerican woodco	ck
Seasons compared		Eastern Management Unit	Central Management Unit	Western Management Unit	Total	Atlantic Flyway	Mississippi and Central flyways	Total
1964 vs. 1965	$\overline{\mathbf{x}}$ (n) ^a	0.04(16)	1.71(7)	-1.56 (7)	0.06 (30)	-0.09 (17)	-0.54 (16)	-0.31 (33)
	t-value ^b	0.03	1.39	-2.07	0.07	-0.29	-2.12	-1.55
1965 vs. 1966	$\overline{\mathbf{x}}$ (n)	2.31(16)	1.50(7)	1.04(7)	1.83 (30)	-0.05 (17)	0.35(16)	0.14 (33)
	t-value	3.05**	1.42	2.18	3.78**	-0.34	1.89	1.23
1966 vs. 1967	$\overline{\mathbf{x}}$ (n)	-1.91 (16)	-1.10(7)	0.0 (7)	-1.27(30)	0.43(17)	0.23(16)	0.33 (33)
	t-value	-1.94	-1.06	0.0	-2.15*	2.07	0.80	1.91
1967 vs. 1968	\overline{x} (n)	0.48(16)	0.62(8)	-1.19(7)	0.14(31)	0.18(17)	-0.08 (17)	0.05 (34)
	t-value	0.68	0.38	-1.27	0.24	0.64	-0.17	0.20
1968 vs. 1969	\overline{x} (n)	1.84 (16)	0.10(8)	-0.51(7)	0.85(31)	-0.63(17)	0.29(17)	-0.17 (34)
	t-value	1.47	0.08	-0.59	1.13	-2.77*	0.56	-0.59
1969 vs. 1970	$\overline{\mathbf{x}}$ (n)	-1.31 (16)	-1.11(8)	0.29(7)	-0.90 (31)	0.02(17)	-0.82 (16)	-0.39 (33)
	t-value	-1.66	-0.67	0.47	-1.50	0.07	-1.80	-1.47
1970 vs. 1971	\overline{x} (n)	-0.42(16)	-0.20(8)	-1.00(7)	-0.49(31)	-0.05 (17)	0.16(16)	0.05 (33)
	t-value	-0.60	-0.10	-1.13	-0.76	-0.34	1.21	0.50
1971 vs. 1972	$\overline{\mathbf{x}}$ (n)	2.32(16)	2.95(8)	0.33(7)	2.04(31)	0.38(17)	0.31(16)	0.34 (33)
	t-value	2.35*	1.89	0.23	2.82**	1.83	1.30	2.23*
.972 vs. 1973	\overline{x} (n)	-2.64(16)	-1.33(7)	0.94(7)	-1.50(30)	0.05 (17)	0.03(17)	0.04 (34)
	t-value	-1.84	-1.25	2.35	-1.79	0.30	0.11	0.25
973 vs. 1974	\overline{x} (n)	-0.15 (16)	-1.89(8)	-1.39(7)	-0.88(31)	0.04(17)	0.05 (17)	0.04 (34)
	t-value	-0.13	-1.38	-1.98	-1.26	0.19	0.24	0.31
.974 vs. 1975	\overline{x} (n)	-0.01 (16)	2.39(8)	0.77(7)	0.79(31)	-0.06(17)	-0.05 (17)	-0.06 (34)
	t-value	-0.01	2.03	0.86	1.50	-0.29	-0.32	-0.43

 $a\bar{x} = average difference between State-level estimates of annual bag per waterfowl hunter; n = number of States.$

some degree of separation is still possible. In most instances, rails reported from States not permitting hunting of large rails will be Virginia rails. However, harvest in these States has amounted to only 6% of the total. Clapper rails are probably dominant in the harvest in most other States although the degree of dominance will vary, and more knowledge of the situation in each State is necessary should a separation be desired.

An annual average of 0.9% (14,300) of the duck stamp buyers in the three eastern flyways hunted rails other than the sora during 1964-75, and bagged about 105,000 such birds (7.4 per hunter) annually (Tables A-13, A-14). Louisiana and South Carolina were the most important harvest States for these birds, each harvesting well over 20,000 annually and together accounting for 50% of the U. S. harvest by waterfowl hunters during this period. Outside Louisiana, the harvest of other rails was strongly concentrated along the Atlantic coast. Both the percentage hunting and the average bag showed significant increases in most areas (Table 2).

Gallinules

Included here are the common gallinule (Gallinula chloropus) and the purple gallinule (Porphyrula martinica). The latter is much more restricted in range, occurring primarily in parts of eight southeastern States. It has been excluded from Florida's list of hunted species since 1972. On the other hand, in Louisiana it apparently becomes numerous enough at times to be the subject of depredation control measures in rice fields.

Some hunters undoubtedly fail to distinguish gallinules (at least common gallinules) from coots. However, in many areas, few, if any, gallinules are present when coots are being hunted, and vice versa, because of differences in migration dates (and therefore season dates), and main wintering grounds. A possible clue to the extent of this misidentification is found in the Service's Duck Wing Collection Survey which, since 1965, has also asked for coot (but not gallinule) wings. Common gallinule wings are received at the rate of about three per thousand coot wings (no purple gallinule wings have yet been received), whereas waterfowl

b*Indicates a significant correlation at the 95% confidence level; **denote the 99% level.

Table 5. Statistical evidence of long-term trends in the hunting of common snipe by waterfowl hunters in those States that had a snipe season every year during the period 1964-75.

	Perc	entage hunting	snipe	A	verage snipe ba	ıg
		Average			Average	
	Period	annual	t	Period	annual	t
Flyway and State	averagea	change	value ^b	averagea	change	valueb
Atlantic						
Connecticut	1.91	0.03	0.54	2.72	-0.07	-0.82
Delaware	2.57	-0.13	-1.48	3.78	0.14	0.74
Florida	20.62	0.67	3.47**	10.99	-0.03	-0.20
Georgia	8.31	0.10	1.12	5.28	0.23	3.69**
Maine	2.65	0.12	1.72	3.74	-0.13	-1.04
Maryland	0.89	-0.01	-0.31	3.56	0.05	0.33
Massachusetts	1.97	0.12	2.33*	2.42	0.04	0.55
New Hampshire	1.67	0.10	1.15	2.07	0.01	0.09
New Jersey	2.82	0.06	0.70	3.72	-0.18	-2.07
New York	1.35	0.06	2.12	2.12	0.08	1.58
North Carolina	5.84	-0.08	-0.76	3.58	-0.16	-2.34*
Pennsylvania	1.33	0.05	1.24	2.20	-0.03	-0.85
Rhode Island	3.12	0.27	3.36**	2.80	-0.03	-0.09
South Carolina	7.80	0.13	1.76	5.54	-0.09	-0.42
Vermont	2.10	0.19	3.61**	3.00	-0.27	-1.54
Virginia	3.82	0.01	0.18	3.29	-0.06	-1.02
West Virginia	3.20	0.36	1.82	2.30	-0.29	-1.09
Subtotal	3.94	0.03	1.33	6.48	-0.09	-1.12
Mississippi	0.0.	0.00	1.00	0.20	0.00	1.1.2
Alabama	9.27	0.36	2.31*	5.40	0.15	1.23
Arkansas	1.72	0.06	1.16	5.59	-0.22	-1.31
Illinois	1.83	0.03	0.87	3.72	0.04	0.91
Indiana	3.16	0.24	3.11*	2.48	-0.02	-0.24
Iowa	3.78	0.27	6.20**	3.89	-0.03	-0.58
Kentucky	2.27	0.10	1.26	2.52	-0.05	-0.57
Louisiana	11.02	-0.16	-1.32	8.35	-0.02	-0.29
Michigan	4.13	0.07	1.03	3.21	-0.04	-0.23
Minnesota	2.74	0.16	3.11*	3.38	0.07	0.77
Mississippi	6.14	0.18	1.24	5.12	0.23	2.49*
Missouri	1.51	0.02	0.47	4.02	-0.08	
Ohio	2.64	-0.03	-0.43	3.07	-0.06	-1.00
Tennessee						-0.67
	2.96	0.16	2.15	3.61	0.12	1.01
Wisconsin	4.27	0.18	2.30*	3.21	0.01	0.16
Subtotal	4.26	0.08	1.84	5.22	-0.05	-1.52
Central		0.10	4 50 4 4	0.00	0.00	0.05
Colorado	1.11	0.12	4.76**	3.88	0.06	0.65
Kansas	2.00	-0.01	-0.15	3.33	-0.18	-1.65
Nebraska	2.33	0.06	1.34	3.50	-0.18	-2.89*
North Dakota	1.92	0.07	2.14	5.81	0.02	0.10
Oklahoma	1.64	0.15	2.20	3.63	0.12	1.00
South Dakota	1.12	tr.	0.02	3.88	-0.12	-0.83
Texas	3.81	0.20	2.40	6.58	0.09	0.74
Subtotal	2.39	0.10	2.52*	5.39	0.02	0.22
acific						
Arizona	2.01	0.12	1.25	4.86	-0.32	-1.10
California	4.62	0.25	6.14**	7.12	0.10	1.12
Colorado	1.41	0.11	2.64*	3.19	0.07	0.67
Idaho	1.78	0.16	4.83**	3.88	-tr.	-0.02
Nevada	2.49	0.20	2.59*	4.55	0.05	0.31
Oregon	3.92	0.25	3.99**	4.83	0.06	0.94
Utah	2.57	0.18	2.39*	3.48	0.12	1.34
Washington	4.41	0.07	1.12	5.84	0.01	-0.12
Subtotal	3.87	0.18	5.28**	6.05	0.04	0.68
Total	3.78	0.09	3.15*	5.68	-0.04	-1.38
Alaska (1965-75)	3.26	0.10	1.46	5.65	-0.02	-0.09

^a All years weighted equally in regression calculations.

b*Indicates an average annual change significantly different from zero at the 95% confidence level; ** denote the 99% confidence level.

Table 6. Statistical evidence of long-term trends in the hunting of American coot by waterfowl hunters in each State during the period 1964-75.

	Perc	entage bagging	coot		Average coot ba	3
		Average			Average	
Flyway and State	Period average	annual change	t value ^b	Period average ^a	annual change	t value ^b
Atlantic						
Connecticut	3,38	-0.02	-0.16	2.78	-0.05	-1.31
Delaware	3.54	-0.09	-0.55	5.01	0.25	1.11
Dist. of Columbia	2.68	-0.20	-2.16	3.23	-0.59	-2.01
Florida	21.65	-0.29	-1.15	9.82	0.07	0.68
Georgia	6.71	-0.07	-0.47	5.41	0.08	0.61
Maine	5.32	-0.21	-1.85	5.88	-0.06	-0.34
Maryland	2.04	0.10	0.13	4.10	-0.33	-2.08
Massachusetts	3.97	-0.07	-0.60	3.83	-0.15	-1.17
New Hampshire	2.45	-0.13	-0.97	2.68	-0.12	-0.90
New Jersev	5.25	-0.13	-1.14	3.60	-0.03	-0.53
New York	3.95	-0.13	-1.10	3.48	-0.11	-1.90
North Carolina	11.29	0.43	1.69	7.55	0.15	0.59
Pennsylvania	5.73	-0.09	-0.51	3.45	-0.06	-0.75
Rhode Island	5.19	-0.32	-1.79	3.21	0.08	0.67
South Carolina	10.76	-0.04	-0.22	5.74	-0.13	-1.62
Vermont	2.21	-0.13	-1.76	2.62	0.10	1.01
Virginia	9.42	0.88	3.65**	10.66	0.71	2.36*
West Virginia	7.94	-0.08	-0.21	3.60	-0.33	-1.64
Subtotal	6.60	-0.10	-0.81	6.38	0.02	0.45
Mississippi						
Alabama	13.32	-0.17	-0.62	7.65	0.29	1.37
Arkansas	3.69	0.01	0.11	4.86	0.15	1.16
Illinois	8.13	-0.17	-0.77	5.19	0.06	0.81
Indiana	10.50	-0.06	-0.22	4.95	0.08	0.63
lowa	6.46	0.05	0.35	4.12	-0.07	-1.14
Kentucky	5.09	0.01	0.04	3.79	0.09	0.67
Louisiana	16.81	0.45	1.34	17.85	-0.51	-1.14
Michigan	11.60	-0.17	-0.78	4.02	-0.01	-0.14
Minnesota	10.28	0.03	0.29	5.33	-0.05	-0.98
Mississippi	6.29	0.02	0.10	6.75	0.11	0.60
Missouri	4.17	0.12	1.59	3.66	0.15	1.73
Ohio	10.97	-0.10	-0.33	4.10	tr.	0.04
Tennessee	8.54	0.25	1.05	4.83	-0.21	-1.31
				7.36	-0.05	-0.55
Wisconsin	13.17	-0.23	-1.17	7.92	-0.06	-0.71
Subtotal	10.44	-0.03	-0.21	1.52	-0.00	-0.71
Central	0.00	0.00	1.50	0.01	0.00	0.05
Colorado	3.06	0.09	1.52	2.81	-0.02	-0.25
Kansas	5.35	0.05	0.66	3.69	0.04	0.55
Montana	3.90	0.09	1.31	3.01	0.21	3.25*
Nebraska	4.40	0.25	2.31*	3.23	-tr.	-0.01
New Mexico	6.02	0.26	1.50	3.24	0.12	1.31
North Dakota	5.12	0.09	0.62	5.31	-0.07	-0.35
Oklahoma	6.37	0.19	1.23	4.27	0.21	1.37
South Dakota	4.70	0.25	2.91*	4.56	0.09	0.92
Texas	5.51	0.26	4.52**	4.12	0.07	1.09
Wyoming	4.33	0.19	1.41	2.99	0.22	1.58
Subtotal	5.05	0.18	2.78*	4.02	0.04	1.55
Pacific						
Arizona	8.55	0.17	1.71	5.25	0.15	0.65
California	12.29	0.22	2.51*	9.13	0.04	0.23
Colorado	4.38	0.19	1.82	3.55	0.11	0.76
Idaho	5.06	-tr.	-0.01	4.96	-0.01	-0.14
Montana	4.07	-0.02	-0.24	5.23	-0.03	-0.07
Nevada	5.87	0.12	0.97	6.57	0.08	0.55
			-1. 14	3.29	-0.06	-0.32
New Mexico	6.40	-0.28				
Oregon	5.84	0.30	4.16**	5.68	0.15	1.35
Utah	8.07	0.38	2.71*	4.54	0.02	0.41
Washington	5.06	-0.06	-0.90	4.62	-0.10	-1.23
Wyoming	2.84	0.09	0.86	4.43	0.19	0.71
Subtotal	8.34	0.13	2.34*	7.41	0.01	0.08
Total	8.21	0.01	0.14	7.13	-0.04	-0.56
Alaska (1965-75)	1.66	-0.03	-0.84	4.24	-0.30	-1.97

^aAll years weighted equally in regression calculations.

b*Indicates an average annual change significantly different from zero at the 95% confidence level; **denote the 99% confidence level.

hunters report bagging about 22 gallinules per thousand coots. Thus, waterfowl hunters could be misidentifying as many as 12% of the gallinules they take as coots.

An average of about 4,600 (0.2%) of the duck stamp buyers in the United States during 1964-75 hunted gallinules, taking an average of 26,400 gallinules (5.8 per hunter) annually (Tables A-15, A-16). About 31% of the gallinule hunters and 50% of the harvest by waterfowl hunters were attributed to Louisiana. Statistically significant long-term trends were detected in both percentage hunting (decrease in Atlantic Flyway, increases in Mississippi and Central flyways) and average bag (increase in Mississippi Flyway) at the flyway level, but there was no evidence of nationwide trends (Table 2).

American Coot

Coot hunting activity and harvest are undoubtedly overestimated in the New England-New York coastal areas where scoters (*Melanitta* spp.) are routinely referred to as coots and reported as such to an unknown degree by waterfowl hunters. However, this overestimate involves comparatively few birds (Table A-17) in areas where the American coot is relatively uncommon (Sanderson 1977:133).

On the average, each year during 1964-75, about 8.2% (164,000) of the duck stamp buyers in the United States hunted coots successfully. Probably very few (assume 5%) who hunted coots were unsuccessful, so, for purposes of comparing hunting pressure placed on coots with that placed on other migratory game birds by duck stamp buyers, an estimate of 172,600 hunters (8.7%) seems reasonable. The harvest by all waterfowl hunters, including those under 16 years old and hunting without a duck stamp, averaged 1,175,000 coots (almost 7 per hunter) annually during the same period. Allowing for survey differences, a similar range in coot hunting activity and success was experienced during 1952-63 (Tables A-18, A-19). Over 58% of the harvest occurred in the Mississippi Flyway; Louisiana accounted for over one-fourth of the harvest in the United States (Table A-17). California and Wisconsin together accounted for another 25%. No long-term trends were evident in average bag, but average increases of 3.6% in the Central Flyway and 1.6% in the Pacific Flyway per year in the percentage of waterfowl hunters hunting coots during 1964-75 were statistically significant (Table 6).

Selected Comparisons with Other Surveys

Some of the results of this survey are compared, at

the State level, with those of several other surveys (Table 7). The predominance of high correlations is encouraging and perhaps surprising, particularly since those for total hunters and total bag are as prominent as those for average bag. The latter, being less influenced by variability in duck stamp sales, was expected to be a better measure of the actual situation. The reader is reminded that a high correlation between surveys does not imply that the surveys yield the same results, only that the results tend to differ by a constant amount or factor which can be large or small, positive or negative, depending on the species.

These high correlations look impressive but may be somewhat misleading. Often very wide ranges are involved (e.g., Nevada with 70,100 and California with 1,210,400 mourning doves bagged by duck stamp buyers in 1972), and such data may show substantial departures from a normal distribution. Even comparatively insensitive surveys might agree well enough in such situations to produce high correlations. Thus, the degree of agreement between surveys should be presumed to be exaggerated to some extent, particularly when used for comparisons among States. Comparisons among seasons tend to yield somewhat lower, though still often significant, correlations, and these results are probably more realistic and useful.

The waterfowl hunter survey has the advantage that it is uniformly applied in all States whereas surveys conducted by individual States may lack this uniformity. The low correlations with band-tailed pigeon data from Oregon and Arizona, contrasting with the generally high correlations found elsewhere, may indicate that the surveys of Oregon and Arizona were less efficient than those of the other States. Different survey methods can produce markedly different results. For example, a special mail questionnaire survey of whitewinged dove hunters in Texas in 1976, based on an efficient sampling frame of white-winged dove stamp purchasers, produced activity and harvest estimates about 2.5 times larger than those produced by the traditional check station survey (J. H. Dunks, Texas Parks and Wildlife Department, Austin, mimeographed report on white-winged dove harvest in Texas dated 21 March 1977). Measurements of trends and other relationships may be much less affected, however. Simple questionnaire design changes can be important, too. With the elimination of the waterfowl calendar (for reporting daily success) from the Federal questionnaire in 1969 after 2 years of testing, it was necessary to reduce subsequent estimates of other migratory game bird hunting activity by 4%, successful coot hunters by 10%, and coot harvest by 16% to maintain comparability with results obtained in previous years (E. M. Martin, Office of Migratory Bird Management, Laurel, Maryland, unpublished report on changes in the Federal questionnaire survey dated

Table 7. Correlation of estimates of total hunters, total bag, and average bag of migratory game birds from Federal questionnaire (this report) with estimates from other sources.^a

				Corre	lation coefficie	ent for:
Species and State or area	Source of data ^b	Season(s) used	Category tested ^c	Total hunters	Total bag	Average bag
White-winged dove						
Lower Rio Grande (Texas)	1	1966-75	Seasons (10)	_	0.60	_
Arizona	2	1966-75	Seasons (10)	_	0.66*	0.91*
Band-tailed pigeon						
California	2	1966-75	Seasons (10)	0.76*	0.92**	0.87**
Oregon	2	1966-75	Seasons (10)	-0.28	trace	0.43
Washington	2	1966-75	Seasons (10)	0.74*	0.91**	0.75*
Arizona	2	1968-75	Seasons (8)	-0.37	0.31	0.57
New Mexico	3	1968-75	Seasons (8)	0.82*	0.64	0.44
Colorado	4	1970-75	Seasons (6)	0.92**	0.93**	0.76
Utah	2,5	1970-75	Seasons (6)	0.71	0.58	0.48
Mourning dove						
Arizona	2	1966-75	Seasons (10)	0.75*	0.70*	0.27
California	2	1966-75	Seasons (10)	0.68*	0.43	0.71**
Idaho	2	1966-75	Seasons (10)	0.87**	0.84**	0.27
Nevada	2	1966-75	Seasons (10)	0.69*	0.69*	0.75**
Oregon	2	1966-75	Seasons (10)	0.65*	0.57	0.78
Utah	2	1966-75	Seasons (10)	0.71*	0.73**	0.82**
Washington	2	1966-75	Seasons (10)	0.38	0.76**	0.76**
Management Units						
Eastern	6	1971 or 72	States (10)	0.55	0.69*	0.91**
Central	6	1971 or 72	States (7)	0.97**	0.99**	0.91**
Western	6	1971 or 72	States (7)	0.96**	0.97**	0.98**
Total			States (24)	0.86**	0.87**	0.94**
Sandhill crane						
All states except Alaska	7	1975	States (8)	0.98**	0.99**	0.96**

 $[^]a$ Asterisks indicate significant correlation: * at the 95% confidence level and ** at the 99% level.

- 2. Minutes of the Western Migratory Upland Game Bird Technical Committee, Report 15, dated June 1976.
- 3. Braun et al. (1975:14) and telephone conversation with J. L. Sands, New Mexico Department of Game and Fish, Albuquerque.
- 4. Braun et al. (1975:14) and telephone conversation with C. E. Braun, Colorado Division of Wildlife, Fort Collins.
- 5. Braun et al. (1975:14) and minutes of Western Migratory Upland Game Bird Technical Committee, Report 14, dated June 1975.
- 6. Sanderson (1977:286).
- 7. M. F. Sorensen and H. M. Reeves, Office of Migratory Bird Management, Laurel, Md., administrative report on sandhill crane hunting dated 9 July 1976.

17 December 1970). It is apparently coincidence that this design change and the significant upward trends in the percentages hunting several species occurred at about the same time, in part because, if they were related, then the number of significant decreases has also been underestimated, probably a much less likely occurrence.

The results of some general comparisons of Federal questionnaire and wing collection surveys are shown in Table 8. Duck survey data are shown as a standard with which to compare woodcock survey data. Whereas the agreement between the two surveys

appears increasingly good between 1971 and 1975 for ducks, it has remained generally poor for woodcock, well below the point of real usefulness. Although the waterfowl-hunter sampling frame is acknowledged to be least complete for woodcock, dove, and pigeon hunters, the generally high correlations obtained with dove and pigeon data (Table 7) led to the expectation of similar results for the woodcock. Possibly regional differences are a factor. Somewhat poorer agreement was found in dove data from the Eastern Management Unit where the lowest ratios of duck stamp buyers to hunters occur (Table A-1), and where nearly all wood-

bSource of data for comparisons with waterfowl hunter data from questionnaires:

^{1.} Sanderson (1977:257) and telephone conversation with J. H. Dunks, Texas Parks and Wildlife Department, Austin.

^cSample sizes in parentheses.

Table 8. State-level comparisons of Federal questionnaire and wing survey estimates of the average seasonal success of duck and woodcock hunters.

		Number		Correlatio	on coefficient	a for \overline{x} bag	
Species	Flyway	of States	1971-72	1972-73	1973-74	1974-75	1975-76
Ducks	Atlantic	18	0.48*	0.71**	0.80**	0.82**	0.87**
	Mississippi	14	0.81**	0.88**	0.88**	0.93**	0.91**
	Central	10	-0.17	0.12	0.30	0.70*	0.78**
	Pacific	11	0.14	0.84**	0.72*	0.85**	0.82**
	U.S.	54	0.57**	0.81**	0.81**	0.87**	0.86**
American							
woodcock	Atlantic	17	0.71**	0.51*	0.42	0.39	0.33
	Mississippi and						
	Central	14 to 17	0.24	0.52*	0.35	0.41	0.43
	Total	31 to 34	0.54**	0.53**	0.45**	0.44**	0.37*

a*Indicates a significant correlation at the 95% confidence level; **denotes the 99% level,

cock hunting activity occurs. Secondly, the incidence of mourning dove hunters in the States in which this bird has been hunted is much higher than the comparable figure for woodcock (40% vs. 12%), resulting in a much larger sample of mourning dove hunters. Thirdly, these wing surveys sample select groups of high success hunters whereas the questionnaire survey attempts to randomly sample all waterfowl hunters. Although adequate for most estimates related to waterfowl hunting, it appears that one or both of these sampling frames yield poor results for woodcock hunting.

Although some statistical tests were applied to data at flyway, management unit, and U. S. levels (obtained by adding various State estimates), it should be recognized that an additional source of error is contained in such figures because of the inability in this survey to either sample the hunters of these various species proportionately or to apply appropriate weighting or expansion factors for making such combined-area estimates. General indications are probably still valid but it may be better, when applying the results in management programs, to place more emphasis on the figures for individual States. Undoubtedly, additional information of better quality on changes and trends can be

extracted from the present survey with a more sophisticated statistical approach, but it is also apparent that, as concluded by MacDonald and Martin (1971:8), a better sampling frame for measuring the harvest of migratory game birds other than waterfowl is still needed.

References

- Benning, D. S., M. M. Smith, and S. L. Rhoades. 1975. Waterfowl status report, 1973. U. S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 188. 105 pp.
- Braun, C. E., D. E. Brown, J. C. Peterson, and T. P. Zapatka. 1975. Results of the four corners cooperative band-tailed pigeon investigation. U. S. Fish Wildl. Serv., Resour. Publ. 126, 20 pp.
- Clark, E. R. 1972. Woodcock status report, 1971. U. S. Fish Wildl, Serv., Spec. Sci. Rep.—Wildl. 153. 47 pp.
- MacDonald, D., and E. Martin, 1971. Trends in harvest of migratory game birds other than waterfowl, 1964-65 to 1968-69. U. S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 142, 29 pp.
- Ruos, J. L., and R. E. Tomlinson. 1968. Mourning dove status report, 1966. U. S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 115. 49 pp.
- Sanderson, G. C., ed. 1977. Management of migratory shore and upland game birds in North America. International Association of Fish and Wildlife Agencies, Washington, D. C. 358 pp.



Appendix A

The 1964-75 survey results, the subject of various analyses in this report, are summarized here at State, flyway or management unit, and national levels. Other investigators may wish to carry out additional analyses after referring to the preceding sections for background information on the survey and the limitations of its results.

Table A-1. Summary of average duck stamp and hunting license sales and relationships between them at State, management unit, and flyway levels: 1964-75.

	1964-75	average:	Percentag	e buying duck	stamps
Flyway, Management Unit, and State	Duck stamp sales	Hunting license sales	1964-75 average ^a	Average annual change	t value
Atlantic Flyway					-
Eastern Management Unit	10.000	76 075	15.75	0.40	4 224
Connecticut	12,262	76,875	15.76	0.43	4.33*
Delaware Florida	11,242 29,748	27,112 242,001	41.40 12.35	1.50 -0.26	4.49* -1.56
Georgia	11,965	323,265	3.72	0.07	1.14
Maine	15,518	203,998	7.58	0.24	4.34*
Maryland	31,774	186,209	17.02	0.58	4.63*
Massachusetts	24,193	121,761	20.08	0.80	4.34*
New Hampshire	8,421	87,739	9.74	0.79	13.24*
New Jersey	32,425	184,310	17.49	0.46	4.53*
New York	88,414	728,452	12.19	0.58	2.93
North Carolina	25,780	418,782 1,109,284	6.18 5.53	0.15 0.17	2.00
Pennsylvania Rhode Island	61,977 3,167	16,113	19.55	0.73	5.38*
South Carolina	18,500	200,706	9.26	0.28	2.78
Vermont	6,886	139,669	4.93	0.31	7.20
Virginia	19,049	410,088	4.66	-0.01	-0.44
West Virginia	1,834	253,786	0.72	tr.	0.46
ississippi Flyway					
Eastern Management Unit	14 047	220 400	4 00	4	0.05
Alabama	14,247	339,408	4.20	-tr.	-0.06
Illinois Indiana	71,007 23,820	470,355 471,342	15.12 5.11	0.34 0.21	2.01 2.97
Kentucky	9,619	271,295	3.52	0.10	3.78
Louisiana	105,379	323,977	32.47	0.12	0.41
Michigan	98,476	896,244	11.06	0.34	2.51
Mississippi	22,025	288,926	7.59	0.20	2.01
Ohio	35,317	558,113	6.35	0.22	2.84
Tennessee	26,250	449,714	5.80	0.12	1.94
Wisconsin	125,821	624,214	20.16	0.15	0.71
Central Management Unit	12 006	200 124	14.11	0.40	2.27
Arkansas	42,896 53,870	300,134 327,737	16.36	0.49 0.35	2.41
Iowa Minnesota	149,520	418,497	36.33	0.51	0.79
Missouri	50,729	447,724	11.28	0.24	3.11
entral Flyway					
Central Management Unit					
Colorado (East)	36,503	284,859	12.84	0.58	3.31
Kansas	50,735	220,705	22.72	1.16	6.77
Montana (East) ^C	40,959	195,586	20.97	1.06	4.72
Nebraska New Mexico (East) ^C	6,332	118,640	5.38	-0.04	-0.63
North Dakota	46,020	89,337	51.39	0.83	2.63
Oklahoma	29,896	237,170	12.65	0,23	1.29
South Dakota	40,263	156,892	25.82	0.16	0.68
Texas	115,196	745,854	15.42	0.04	0.30
Wyoming (East) ^C	7,231	155,686	4.64	0.20	3.21
acific Flyway					
Central Management Unit Colorado (West)					
Montana (West)	26,646	186,846	14.46	-0.23	-1.55
New Mexico (West) ^C	,	•			
Wyoming (West) ^C					
Western Management Unit				0.10	1 24
Arizona	11,363	156,994	7.21	0.12	1.34
California	156,155	704,288 210,393	22.19	0.33 0.11	2.84
Idaho Nevada	30,444 12,671	63,061	14.49 20.11	0.19	1.13
Oregon	51,585	349,733	14.76	0.25	2.14
Utah	33,698	218,195	15.47	0.21	1.48
Washington	72,402	325,053	22.29	0.14	0.92
laska	13,085	56,602	23.42	-0.04	-0.15
anagement Unit Totals					
Eastern	935,115	9,423,741	9.90	0.23	2.51
Central	696,797	3,885,665	17.86	0.30	2.05
Western	368,319	2,027,718	18.15	0.18	1.85
lyway Totals					
Atlantic	403,154	4,730,150	8.49	0.23	2.87
Mississippi	828,976	6,187,682	13.38	0.26	1.98
Central	373,135	2,204,728 2,214,564	16.82 17.82	0.37 0.13	1.40
Pacific	394,965				
J. S. Total (with Alaska)	2,013,315	15,393,725	13.04	0.25	2.38

a All years weighted equally in regression calculations.
b Asterisks indicate annual change significantly different from zero--* at the 95% confidence level and ** at the 99% confidence level.
c Hunting license figures not separable by flyway; data for these States appear in the flyway where most stamp sales occurred.

Table A-2. White-winged dove hunting activity and success by hunters purchasing duck stamps: 1966-75.

	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	Average
New Mexico											
Number hunting	330	350	310	320	580	440	320	290	440	670	400
Percent hunting	6.0	5.9	4.9	5.6	8.8	6.0	5.0	4.7	5.9	8.1	6.2
Total bag	4,400 13.3	5,600 15.7	6,400	3,600	4,200	4,400	3,800	3,500	3,900	11,100	5,100
Average bag	13.3	15.7	20.7	11.3	7.2	10.3	11.9	12.1	9.0	16.7	12.6
Texas											
Number hunting	11,400	9,900	8,900	7,200	9,100	9,400	9,700	7,200	8,100	9,400	9,000
Percent hunting	11.5	8.9	9.4	6.3	6.3	6.9	7.6	6.2	6.7	7.2	7.5
Total bag	221,600	182,400	106,500	98,200	139,900	85,400	132,100	103,100	130,900	147,100	134,700
Average bag	19.4	18.4	12.0	13.6	15.4	9.1	13.6	14.4	16.2	15.6	14.9
Arizona											
Number hunting	4,100	4,600	4,000	4,700	4,500	3,900	4,900	4,400	5,000	5,800	4,600
Percent hunting	47.0	44.5	39.9	37.1	31.8	25.6	41.9	39.9	37.5	50.5	38.6
Total bag	86,800	114,700	85,400	57,000	65,900	41,700	64,700	61,500	55,300	81,400	71,400
Average bag	21.4	25.2	21.2	12.2	14.7	10.6	13.1	14.0	11.1	14.0	15.6
0-2/6/-											
Number hunting	10,600	10,700	7,500	10,700	11,500	11 200	c 000	5 600	0.500	0.000	0.700
Percent hunting	7.0	7.1	4.7	6.2	6.2	11,200	6,900 4.6	5,600 4.0	9,500 6.7	9,200	9,300
Total bag	101,000	155,100	68,800	102,500	129,000	114,600	69,100	69,700	80,600	97,500	98,800
Average bag	9.6	14.4	9,2	9.6	11.2	10.2	10.1	12.4	8.5	10.6	10.6
									0.0	, , , ,	
Nevada											
Number hunting	360	530	370	310	500	340	280	220	290	350	360
Percent hunting Total bag	3.0 3,900	4.2	3.0	2.4	3.5	2.3	2.2	1.6	2.5	2.6	2.7
Average bag	10.9	4,300 8.1	2,000 5.5	4,200 13.5	3,000 6.0	5,000 14.6	4,200 15.0	1,500 7.0	3,000	3,500 10.0	3,500
Average bag	10.5	0.1	3.3	13.3	0.0	14.0	15.0	7.0	10.4	10.0	9.0
TOTAL											
Number hunting	26,800	26,100	21,100	23,200	26,200	25,300	22,100	17,700	23,300	25,500	23,700
Percent hunting	9.7	9.0	7.4	7.3	7.1	7.3	7.2	6.1	7.9	8.4	7.7
Total bag	417,700	462,100	269,100	265,600	342,000	251,100	274,000	239,400	273,700	340,600	313,500
Average bag	15.6	17.7	12.8	11.4	13.1	9.9	12.4	13.5	11.8	13.4	13.2

Table A-3. 8and-tailed pigeon hunting activity and success by hunters purchasing duck stamps: 1966-75.

	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	Average
California Number hunting Percent hunting Total bag Average bag	11,400 7.5 109,000 9.6	10,000 6.6 84,600 8.5	11,100 6.9 97,400 8.8	9,600 5,5 70,900 7.4	9,900 5.3 82,700 8.3	9,700 5.7 86,400 9.0	13,500 9.1 142,100 10.5	8,100 5.7 67,000 8.2	8,800 6.3 74,600 8.4	6,400 4.6 39,300 6.1	9,900 6.3 85,400 8.7
Oregon Number hunting Percent hunting Total bag Average bag	6,000 12.3 47,800 8.0	7,000 14.6 59,400 8.5	5,400 11.3 44,400 8.2	7,600 13.8 65,600 8.7	6,100 10.0 43,100 7.1	8,600 14.8 75,300 8.8	8,800 17.1 66,900 7.6	7,200 14.2 58,100 8.1	6,200 12.1 45,500 7.4	5,300 9.8 37,900 7.1	6,800 13.0 54,400 8.0
Washington Number hunting Percent hunting Total bag Average bag	9,200 13.4 71,000 7.7	6,100 8.6 45,400 7.5	8,000 11.0 77,000 9.7	8,100 10.1 54,600 6.7	8,600 10.3 59,900 7.0	9,400 12.4 65,700 7.0	7,000 10.1 38,900 5.6	7,500 10.5 47,500 6.3	6,400 9.3 42,100 6.5	5,800 8.1 25,100 4.3	7,600 10.4 52,700 6.9
COASTAL STATE 5U81 Number hunting Percent hunting Total bag Average bag	26,600 9.9 227,800 8.6	23,000 8.5 189,400 8.2	24,500 8.7 218,800 8.9	25,300 8.2 191,100 7.6	24,600 7.4 185,700 7.5	27,600 9.1 227,400 8.2	29,400 10.9 247,900 8.4	22,800 8.6 172,500 7.6	21,500 8.2 162,200 7.6	17,600 6.7 102,200 5.8	24,300 8.6 192,500 7.9
Arizona Number hunting Percent hunting Total bag Average bag	<u>a</u> /		600 5.9 2,200 3.7	510 4.0 790 1.6	450 3.2 1,660 3.7	770 5.0 2,280 2.9	510 4.3 540 1.1	330 3.0 1,620 4.9	640 4.8 2,140 3.4	640 5.5 2,440 3.8	440 4.5 1,370 3.1
New Mexico Number hunting Percent hunting Total bag Average bag			120 1.8 270 2.3	60 1.1 270 4.2	210 3.2 340 1.6	360 4.9 2,050 5.7	320 4.9 1,290 4.1	250 4.1 790 3.2	360 4.8 830 2.3	350 4.2 1,970 5.7	200 3.7 780 3.9
Colorado Number hunting Percent hunting Total bag Average bag					380 0.9 1,240 3.3	850 1.8 5,090 6.0	670 1.6 2,490 3.7	590 1.4 1,110 1.9	810 1.9 2,770 3.4	540 1.2 1,250 2.3	380 1.5 1,400 3.6
Utah Number hunting Percent hunting Total bag Average bag					110 0.3 540 5.0	110 0.3 200 1.8	350 1.1 910 2.6	60 0.2 90 1.3	230 0.6 570 2.4	120 0.3 60 0.5	100 0.5 240 2.4
INLAND STATE 508TO Number hunting Percent hunting Total bag Average bag	DTAL		720 4.3 2,470 3.5	570 3.1 1,060 1.9	1,140 1.2 3,770 3.3	2,100 2.0 9,620 4.6	1,850 2.0 5,230 2.8	1,230 1.3 3,610 2.9	2,040 2.0 6,310 3.1	1,640 1.6 5,720 3.5	1,410 1.8 4,720 3.3
TOTAL Number hunting Percent hunting Total bag Average bag	25,600 9.9 227,800 8.6	23,000 8.5 189,400 8.2	25,200 8.5 221,300 8.8	25,900 7.9 192,100 7.4	25,700 6.0 189,500 7.4	29,700 7.2 237,000 8.0	31,200 8.6 253,200 8.1	24,100 6.7 176,100 7.3	23,500 6.5 168,500 7.2	19,200 5.2 107,900 5.6	25,400 7.4 196,300 7.7

a/ 8lank space indicates that the season was not open on band-tailed pigeons.

Table A-4. Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted mourning doves: 1964-75.

Management Unit and State

Albama		Number hunting (in thousands)	1
55.0 52.2 54.0 56.6 47.8 53.2 53.3 56.7 62.4 40.6 47.3 59.3 49.7 56.5 37.4 40.6 47.3 59.3 56.2 49.7 56.5 50.2 49.7 56.6 57.0 40.1 34.9 59.2 56.5 56.5 51.0 47.2 62.3 62.4 51.7 59.3 55.2 56.2 50.2 61.0 47.2 62.3 62.4 51.7 59.3 56.2 56.2 51.0 47.2 62.3 62.4 40.6 42.5 51.0 47.2 62.3 62.4 40.6 42.5 51.0 47.2 62.3 62.4 40.6 42.6 42.4 35.3 41.8 35.7 35.8 31.3 31.0 31.0 31.0 28.4 35.2 51.8 45.9 45.9 45.9 57.1 52.5 52.5 42.1 33.0 33.0 55.2 57.1 52.5 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.2 57.0 57.2 57.0 57.2 57.2 57.0 57.2 57.0 57.2 57.0 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2	1974- 1975- 75 76 Average	1964- 1965- 1966- 1967- 1968- 1969- 1970- 1971- 1972- 1973- 1974- 1975- 65 66 67 68 69 70 71 72 73 74 75 76	Average
30.6 28.2 19.5 27.7 29.8 35.2 28.5 28.7 35.4 34.0 28.3 25.3 26.5 28.4 24.9 30.7 29.4 31.4 34.0 58.2 28.7 35.4 46.3 36.5 29.4 24.9 30.7 29.4 31.4 34.0 58.2 38.0 3 35.2 46.3 37.8 48.8 51.4 52.5 51.7 55.7 38.4 33.5 36.8 36.9 36.9 38.4 38.0 3 36.5 35.8 36.9 3.4 33.5 36.8 36.9 36.9 38.4 36.1 3 49.9 42.0 35.3 36.1 3 59.9 36.7 35.7 36.5 36.1 3 59.9 36.7 36.7 36.7 36.7 36.7 36.7 36.7 36.7	57.1 59.3 55.6 5.7 36.7 36.7 36.7 36.7 36.5 36.7 36.7 36.7 36.7 36.7 36.7 36.7 36.7	7.6 6.6 8.4 9.2 6.7 7.7 9.0 7.3 9.3 7.6 7.1 7.9 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	7 4 4 7 9 4 4 7 9 4 4 7 9 9 9 9 9 9 9 9
	31.0 34.1 30.8 55.5 55.5 55.5 55.6 37.4 43.5 36.2 60.1 71.2 17.7 52.7 56.8 26.6 56.1 54.9 53.1 22.5 26.9 23.1 24.3 27.0 23.1	10.6 6.2 6.9 10.4 6.3 11.9 15.9 16.0 18.0 17.0 16.6 19.8 4.6 18.9 15.9 16.0 18.0 17.0 16.5 19.8 4.6 18.9 15.1 18.5 12.2 22.0 21.6 27.5 31.7 32.8 33.1 32.3 35.4 31.9 15.1 18.5 12.8 13.3 15.1 18.4 14.4 16.8 21.4 21.7 22.6 19.0 21.4 25.5 19.0 21.4 25.5 19.0 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4	13.1 13.1 13.1 13.1 13.1 13.1 15.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10
Hestern 56.0 53.6 66.4 60.1 58.4 64.5 53.6 52.3 66.6 66.5 California 44.2 42.4 43.6 43.1 40.1 45.3 41.7 41.2 41.0 43.0 Ldaho 25.5 25.4 24.9 34.4 26.2 27.0 30.6 26.6 29.0 27.5 29.7 California 43.2 22.1 18.8 24.4 23.6 18.1 26.3 22.3 22.3 28.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.4 23.6 18.1 26.3 22.3 25.5 18.8 24.8 39.2 41.1 15.4 16.1 16.2 25.0 15.0 17.4 14.1 15.4 16.1 16.2 25.0 15.0 17.4 14.1 15.4 16.1 16.2 25.0 15.0 17.4 14.1 15.4 16.1 16.2 25.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	65.0 70.5 61.1 43.4 42.9 42.6 42.3 46.6 42.1 22.9 27.4 22.9 37.1 13.9 15.3 34.0 34.8 33.4	4.7 4.1 5.7 6.2 5.9 8.1 7.6 8.0 7.9 7.3 8.6 8.1 85.2 59.3 65.7 65.2 64.2 78.2 78.1 70.3 60.8 61.1 61.5 59.3 6.4 6.4 61.7 62.2 64.2 78.2 78.1 70.3 60.8 61.1 61.5 59.3 6.4 6.4 61.7 5.2 6.9 5.6 6.7 6.7 4.6 5.3 5.2 6.3 10.0 9.8 9.2 11.7 11.4 9.9 16.1 13.0 13.2 9.5 11.7 11.4 9.9 16.1 13.0 13.2 9.5 11.7 15.0 11.8 13.3 14.5 13.4 11.1 12.6 14.2 15.5 14.0 15.8 15.9 11.8 11.6 11.2 11.6 11.2 11.5 11.5 11.5 11.5 11.5 11.5 11.5	6.9 65.2 8.6 5.3 11.7 12.5 12.5
Grand Total 24.1 22.3 23.0 23.3 23.3 24.5 23.8 23.6 25.2 24.3	25.1 26.7 24.2	372.4 339.3 405.0 443.3 417.8 497.9 566.4 558.6 537.8 494.2 532.0 571.2	478.0

also open season on mourning dove in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest. Figures for Ohio, Nebraska, North Dakota, South Dakota, and Nyoming are included in "Other States" total when dove season was not open there.

Diverage for those years during which the season was open.

	1974- 1975- 75 76 Average	285.8 322.3 339.1 76.1 69.1 60.4 397.2 376.5 60.4 397.2 376.4 60.4 498.2 50.0 491.7 466.6 500.0 491.7 466.6 491.1 466.6 491.1 466.6 491.1 466.6 491.1 466.8 519.3 118.8 491.1 18.8 519.3 118.8 519.3 546.8 519.3 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 546.8 5	399.2 533.5 388.7 388.7 582.7 582.7 582.4 170.5 582.4 170.5 582.4 170.5 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7 582.7	307.0 311.5 258.6 1,286.0 1,319.6 1,425.7 184.2 197.8 197.8 124.2 196.8 197.5 187.7 212.9 160.5 2,231.4 2,423.7 2,358.9
	1973- 19	286.8 61.6 381.7 592.0 592.0 584.2 546.2 546.2 546.2 546.2 546.2 546.2 547.3 567.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3	550.0 747.1 389.4 _a 109.3 _a 473.3 _a 2,100.9 2, 13.4 64.9	296.8 1,310.3 145.6 104.9 155.6 156.9 2,267.7
~	1972-	441.8 394.6 354.6 354.6 3523.2 223.2 190.5 13.5 256.5 256.5 251.9 255.1 6,433.8	501.4 219.1 817.4 545.9 131.2 254.2 296.7 2,521.3 ₃ 53.5 5,640.7	309.5 1,210.4 125.5 70.1 149.6 115.0 154.7 2,134.9
(in thousands	1971-	339.7 48.4 48.5 337.8 337.8 594.7 164.4 837.8 837.8 559.4 369.0 367.4 667.4 7 4 7 4 7 101.1	526.9 198.9 701.3 482.3 487.4 223.2 1,914.2 60.9 4,664.8	246.4 1,543.3 159.2 103.0 151.4 151.5 175.2 2,530.0
harvest	1970-	426.9 75.1.4 221.1.4 229.4 229.4 1,073.4 239.7 239.7 5.04.6 5.04.6 5.04.6 5.04.6 5.04.6 5.04.6 5.04.6 5.04.6	374.1 162.0 642.1 18.5 19.4 19.4 19.4 19.4 19.4 19.4 19.4 19.4	268.5 3 1,720.3 1 124.7 8 98.6 7 214.7 1 156.5 7 2,769.5
	1969- 07	367.1 52.2 52.2 52.2 52.3 85.2 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0 183.0	358.7 1 144.0 13 384.9 3 384.9 1 94.4 4 490.6 0 185.6 0 185.6 0 185.6 2,017.1 2 4,333.4	3 302.5 7 1,639.3 3 130.1 7 118.8 7 125.7 7 173.1 2 2,630.7
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	1968 - 1969- 07 - 69	38.3 47 28.5 0 31 28.5 0 31 28.5 0 31 38.6 4 38.6 6 4 38.6 6 4 38.6 6 4 38.6 6 4 38.6 6 4 38.6 6 4 38.1 8 8 38.1 8 8 38.	27.6 3 23.0 223.0 227.8 2 27.8 2 27.8 2 27.8 2 27.5 2 27.5 2 27.2 2 27.2 2 27.2	40.6 19.9 17.3 11.9 10.9
	1 00	37.1 38 11.5 28 11.5 2	27.4 15.4 15.4 20.4 32.9 32.9 12.4 12.4 19.1	37.7 23.5 15.2 20.2 14.4 13.7
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200	1965- 19	41.3 4 10.2 2 12.2 2 12.2 2 13.5 1 14.5 2 14.5 4 11.0 1 11.0 1 11.0 1 11.0 1 13.5 2 13.5 2 13.5 4 13.5 4 13.5 4 13.6 3 13.6 3 13.7 5 13.7 5 13	25.2 14.0 19.8 19.7 _a 34.7 _a 29.2 _a 36.6 _a	37.7 23.5 12.6 19.8 11.2 14.2
10401-03	1964- 19	28.3 28.3 28.3 38.3 38.3 38.3 38.3 31.5 5.8 5.8 5.8 5.8 5.8 5.3 5.8 5.8 5.8 5.8 5.8 5.8 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	24.4 16.2 20.1 20.6 29.2 7.9 26.5 30.2 17.8	42.7 23.2 14.7 18.8 14.2 12.5 16.9
lable A-5. Mindal State-Teres estimates of	Management Unit and State	Eastern Alabama Ole laware Ole laware Tordony la Tordony la Tordony laware Tordony laware North Carolina Phorth Carolina Phorth Carolina Phorth Carolina Phorth Carolina Phorth Carolina Temessee Virginia Mest Virginia Direr States Ulicipalia	Central Actions Actions Colorado Colorado Colorado Hissouri New Mesico North Datota South Datota South States Upming	Mestern Arizona California Idaho Nevada Oregon Utah Mashington

Table A-5. Annual State-level estimates of the average and total harvests of mourning doves by dove hunters who purchased duck stamps: 1964-75.

 3 No open season on mourning dove in State where duck stamp was purchased, and no data are available included in "Other States" total when dove season was not open there. 5 Neerage for those years during which the season was open.

Table A-6. Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted American woodcock: 1964-75.

	6 Average	4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	6 6 1.3 1.3 1.6 6 1.6 1.6 6 1.8 1.6 7.7 1.0 1.0 1.0	1.5 .6 2.9 1.8 tr. 5 .4 5.7 3.5	.2 168.7
	4- 1975- 75 76	2. 1. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	2.2 2.8 3.2 2.8 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	1.4 2.0 _a 2. 4.6 5.	220
	3- 1974- 74 75	7.7.7.8.8.8.9.9.1.9.9.9.9.9.9.9.9.9.9.9.9.9.9	1.2 1.2 1.3 3.4 4.5 3.4 3.7 3.4 3.7 2.1 1.5 2.1 1.5 2.1 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	.9 1 .7 .1.9 _a 2	7.8 215.5
	972- 1973- 73 74	5.0 5.7 1.1 1.8 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 5.5 6.3 5.6 6.3 3.4 8.7 8.2 17.3 16.5 17.3 16.5 17.7 1	2.7 3.2 3.2 3.2 3.2 3.2 3.2 1.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	2.0 _a 1	192.7 187
sands)	1971- 197	5.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	29.2 29.2 29.2 29.2 8.6 8.6 8.6 1.5 6.0 1.5 6.0	2.1 ₉ 2.1 ₉ 4.1	206,1 193
(in thou	970- 19; 77	7.3 3.0 11.6 11.6 10.1 10.1 25.8 22.7 22.0 27.7 22.8 27.7 22.8 27.7 27.7 27.8 27.7 27.8 27.7 27.8 27.8	2.5 2.8 2.8 2.8 2.9 9.4 9.4 2.2 2.1 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	1.9 .6 1.8 _a 4.7	209.4 20
unting	969- 19	6.2 1.6 1.1 1.1 1.1 1.1 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7	1.7 1.0 1.0 2.4 2.4 1.5 1.5 1.9 1.7 1.7 1.9 1.7 1.7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	.5 2.2 tr. 3.5	174.9 20
umber h	968- 19	4,4 1,2 1,2 1,6 1,4 1,4 1,2 1,4 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	1.6 1.3 1.3 1.6 1.7 1.7 1.8 1.8 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	2.3	132.3
2	89	3.9 1.2 1.2 1.2 2.0 2.0 2.0 2.0 2.0 3.6 1.4 1.5 67.9	1.3 1.6 1.6 1.6 1.0.9 5.7 5.7 1.1 1.7 1.1 1.3 1.3 1.3 1.3	 1.4 tr. 2.5	137.5
	1 -9961	3.4 4.1 1.3 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1.4 1.5 1.5 1.14 20.5 2.9 2.9 3.0 7.7 11.7	.2 1.6 2.2 2.3	116.3
	1965- 1	3.6 1.2 1.2 1.5 1.5 1.3 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0	20.9 20.9 20.9 20.9 3.4 3.4 13.5 54.9	2. 9. 4. 1	112.4
	1964-	3.1 	1.8 1.5 1.5 23.6 23.6 23.6 1.4 1.3 1.3 1.3 1.8	4. 8.1 8.5 8.5	119.9
	Average	11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1	9.2 3.8 10.9 10.9 11.3 27.0 4.7 4.7 8.3 3.0 13.9 16.3	1.4 2.0 1.6 8. 2.2 0.9	10.6
	1975- 76 A	39.9 112.4 112.6 112.6 113.9 113.9 110.4 110.4 110.4 110.4	12.4 4.9 5.5 17.8 17.8 9.7 9.7 9.1 9.1 9.1 15.1 6.3 13.5	1.5 4.2 2.2 _a 1.3	10 6
	1974- 1	38.4 18.0 18.0 18.0 18.0 18.3 37.8 8.3 37.8 24.4 12.4 12.9 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	9.6 14.2 14.2 32.8 32.8 7.1 7.1 15.7 15.7	2.1 1.9 1.6 _a	10
	1973-	43.3 13.8 13.8 112.3 112.3 137.6 137.6 25.7 25.7 26.7 26.5 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7	9.1 3.9 3.9 6.7 6.7 6.2 13.9 13.9 11.0	1.5 2.4 1.6 1.0	7
	1972-	39.3 8.5 8.5 8.5 8.5 8.1 8.6 7.3 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	10.6 5.3 5.2 13.4 12.4 12.3 10.7 10.7 18.0 11.2	1.6 1.6 3.1	:
ng	1971-	39.3 10.1 10.1 10.1 14.4 14.4 14.6 14.6 14.6 14.6 14.6 14	8.0 3.8 3.8 4.2 11.9 4.3 4.8 4.8 6.9 6.9 6.9 7.6 13.7 13.7	1.0 1.5 8.1 8.3	
je hunti	1970-	47.1 11.4 8.1 11.2 32.1 33.2 33.2 22.8 8.7 8.7 8.7 22.8 7.3 7.3 23.2 23.2 23.2	8.6 9.6 9.6 9.6 13.3 13.3 13.5 10.5 10.5 10.5	3.1 g.1.2 2.1	
rcentac	1969-	79.1 14.2 7.6 4.7 4.7 4.7 8.5 8.5 8.1 23.0 23.0 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	11.8 2.8 9.7 9.7 3.3 3.7 8.9 8.9 14.9 10.0	6.1 6.1 7.	0
Pe	1968-	38.7 10.6 6.3 17.8 17.8 33.8 33.8 9.8 13.0 13.0 17.9 17.9	11.3 3.3 3.3 2.3 2.3 10.8 10.8 11.8 12.6 2.1 12.6 12.6 12.6	2.5	,
	1967-	41.9 7.3 7.3 7.3 7.6 7.6 7.6 8.3 8.3 8.3 2.6 1.6 9.7 16.9 16.9	2.5.4 1.7.7 1.0.1 1.0.1 1.0.2 1.0.2 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3 1.0.3	7:11	
	1966-	36.3 9.2 9.2 8.0 8.0 30.9 5.6 30.5 30.5 17.1 18.0 20.2 7.1 37.3 47.3 47.3 17.1	2.2 2.2 7.1 8.4 7.1 24.3 2.0 7.2 2.3 2.3 2.3 2.3 2.3 7.2 2.3 7.2 9.7 7.7	7. 8. 1.6 8.	
	1965-	45.2 9.1 9.1 9.1 4.6 8.7 30.0 6.0 6.0 6.0 7.6 18.5 18.5 18.5 18.5 18.5	6.0 2.5 3.2 2.1 28.1 2.5 6.1 13.3 8.8	4.1.0 9.1.0 8.3	
	1964-	40.9 40.9 40.1 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9	6.0 2.5 8.9 30.0 30.0 30.0 3.5 17.5 17.5 17.5	1.3 2.2 1.3	-
1	Flyway and State	Atlantic Connecticut Maryland Maryland Maryland Maryland New Jorsey New Jorsey New York North Carolina North Carolina Vermont Carolina V	Mississippi A tabana A tabana A tabana A tabana A tabana I 11 inots I ndinana I nowa Kentucky Louisiana Michigan Minnesota Mississippi	Central Kansas Oklahoma Texas Wooming Uther States	riyway lutan

Alo open season on woodcock in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest. Figures for Wyoming are included in "Other States" total when woodcock season was not open there.

Dayerage for those years during which the season was open.

Total harvest (in thousands) Table A-7. Annual State-level estimates of the average and total harvest of American woodcock by woodcock hunters who purchased duck stamps: 1964-75.

	Average	15.6 3.1 4.7 4.7 5.5 5.5 6.9 6.9 6.9 7.0 7.0 7.1 7.1 7.6 7.1 7.6 7.1 7.6 7.1 7.6 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	4.6 5.3 7.4b 7.3.4 7.3.3 7.3.3 888.6 8.6 8.8 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2	5.4 5.4 1.0 9,0	587.5
	1975-	16.2 4.6 4.6 6.7 40.8 7.6 37.6 37.6 8.9 37.6 8.9 10.2 10.2 10.2 315.1	6.9 111.3 151.4 2.6 3.1 157.4 357.4 10.9 10.9 14.0 14.0 14.0 4.6	4.6 10.5 _a 1.1 17.1	775.4
	1974- 1	13.5 3.8 3.8 11.5 48.1 16.8 16.8 16.2 17.2 17.2 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17	3.5 6.8 12.2 4.6 4.6 7.3 6.7 114.1 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16	2.3 2.1 5.5 1.9	756.1 7 er States
	1973- 1	18.7 4.8 6.0 6.0 34.8 82.8 82.8 82.8 82.8 63.1 5.7 5.7 5.9 1.9	3.0 8.5 8.5 7.0 3.4 11.7 47.4 119.7 12.8 13.3 3.5 58.4 314.4	2.0 2.2 6.8 1.0	658.4 7 in "Other
(5)	1972- 1	13.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	6.7 8.1 10.5 8.8 2.9 2.9 95.5 26.6 13.0 10.5 4.3	1.1 1.7 5.4 1.9	2 723.2 included
housand	1971- 1	14.6 4.1 1.2 6.2 33.9 8.3 8.3 8.3 90.3 90.3 90.3 10.4 10.4 17.8	4.0 4.8 12.2 13.3 106.4 73.3 106.7 8.4 18.0 2.9 2.9 2.9 331.9	1.6 5.7 _a 1.8 9,8	667.2 are inc
st (in t	1970-	23.4 3.6 3.6 3.3.2 2.2 2.8.0 2.6 5.4.9 9.5 11.5 320.0	5.4 7.76 6.3 6.3 1.13 95.8 95.8 20.7 777.7 20.7 90.7 91.3 13.1 13.1 90.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 8	1.1 .8 4.4 1.6 7.9	666.4 Wyoming
harvest	1969-	18.8 3.0 4.6 3.6 225.8 110.1 13.1 7.0 42.1 7.0 5.2 5.2 5.2	7.4 2.6 6.2 6.2 6.2 106.0 14.2 14.2 13.9 19.4 19.4 2.6 4.9 2.6 4.9 19.4	2.0 2.0 6.2 6.2 6.3	19.7 for
Total	-8961 69	15.8 3.8 6.2 6.2 38.6 9.1 129.3 129.3 30.9 6.5 76.5 8.7 4.3 4.3	4.1 3.2 3.9 4.2.3 7.5 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	2.8	485.2 58 Figures
	1967- 68	12.2 1.8 4.0 4.0 4.0 7.0 27.7 7.0 20.5 8.0 8.3 39.8 39.8 4.6 9.1	5.2 6.4 6.4 1.7 1.7 16.6 7.3.9 16.6 7.3.9 10.2 10.2 10.2 10.2 10.2	2.3	497.1 harvest.
	-9961 67	13.7 2.2 2.2 2.5 2.5 2.6 2.5 1.6 49.5 49.5 1.6 3.0 7.7 7.7	5.5 2.7 4.1 4.1 68.7 10.0 68.7 10.0 4.6 2.4 2.4 2.4 1.1 3.6 2.0 3.8 3.6 2.0 3.8 3.6 2.0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	.3 5.0 6.3	31.5
	1965-	16.3 1.9 2.5 2.2 2.3 3.3 3.3 1.5 1.5 2.1 2.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	3.7 3.7 2.9 3.1 4.9 4.9 4.9 3.1 13.0 13.0 180.4	2.0 _a	376.6 4 to State
	1964-	11.9 11.8 26.19 26.19 3.0 19.7 19.3 8.6 6.8 19.3 19.3 19.3 16.2 16.2	2.2 4.0 4.0 4.8 1.6 1.6 7.1.7 7.1.7 71.7 71.7 71.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1	8.1 _a	452.6 hunters
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	1- 1972- 72 73	// / / / / / / / / / / / / / / / / / /	######################################	1.2 2.7 _a 3.4	3.2
harves				0.6 1.4 2.5 3.4	3.2
Average	9- 1970- 70 71		470 894 977 94 94 94 94 94 94 94 94 94 94 94 94 94	22.8	
	196	28.1.7.4.0.0.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	28-1-20-20-20-20-20-20-20-20-20-20-20-20-20-	4.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	7
	7- 1968- 68 69			0.8 6.0 1.7 3.8 2.6	3.6
	-961 -967- 67 68	######################################	844488998488898989898989898989898989898	1.1 2.0 3.1 _a 2.7 2.8	3.5
	-9961 -99 66 67	4.0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1.8 0.7 2.2 ₃ 0.8	3.4
	1964- 1965- 65 66	8 6 0 8 6 8 - 6 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33.25 33.25 33.25 33.25 33.25 33.25 33.25 33.25	1.5 4.5 3.4	3.8
	196				12
	Flyway and State	Atjantic Cometicut Oelaware Oislaware Oislaware Oislaware Oislaware Florida Georgia Mana Massachusets New Hampshire New Hampshire New Jores New Jo	Mississippi Arkansas Arkansas Ilihnois Indiana Ilousisiana Michigan Minesota Mississippi Onio Mississippi Onio Missouri Onio Missouri Onio	Central Kansas Gklahoma Texas Wyoming Other States Flyway Total	Grand Total 3.8 3.4 3.5 3.6 3.

'No open season on woodcock in State where duck total when woodcock season was not open there.

 $^{\mbox{\scriptsize D}}\mbox{\sc Average}$ for those years during which the season was open,

Table A-8. Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted common snipe: 1964-75.

^bAverage for those years during which the season was open.

Table A-9. Annual State-level estimates of the average and total harvest of common snipe by snipe hunters who purchased duck stamps: 1964-75.

Flyway and State	1964-	- 1				Ave	age											Tota	harve	st (in	thousands)	(5)				
	1964-	99	-9061	1967-	1968-	1969-	7970-	1971-	1972-	1973-	1974- 75	1975- 76	Average	1964- 65	1965- 66	-9961 -99	1967- 68	1968- 69	1969-	1970-	1971-	1972-	1973-	1974-	1975-	2-5
Atlantic Commeticut Commeticut Delaware Delaware Olistrict of Columbia ^a Florida Flor	450 614 62 62 62 62 62 62 62 62 62 62 62 62 62	-4800004-0004400 0 80440000000400000000	7.44 7.66 7.66 7.66 7.66 7.66 7.66 7.66	8.53 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	8.8 6.0 6.0 6.0 7.5 7.5 7.5 8.5 7.5 8.5 7.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8	60000000000000000000000000000000000000	247.004.00.00.00.00.00.00.00.00.00.00.00.00	2.0 2.0 1.0 9.0 9.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	7.8.3 1.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	E	0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8.4 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	7	2.2 2.2 2.2 2.2 2.2 2.2 2.2 4.1 3.3 4.1 6.4 6.9	60.2 60.2 5.0 5.0 11.1 11.8 11.8 11.8 11.8 11.8 11.8 11	66.1.3.2.2.2.2.3.3.2.2.4.4.4.4.4.4.4.4.4.4.4		57.9 57.9 57.9 1.1 1.1 1.1 1.1 1.2 5.3 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4				68.4 7.23 7.23 7.23 7.23 7.24 7.24 7.24 7.26 7.27 7.26 7.27 7.26 7.27 7.26 7.27 7.26 7.27 7.27		90.7 7.09 3.8 3.7 3.7 2.8 3.1 4.1 3.1 11.7 7.1 11.7 136.2	
Alabama Alabama Arkansas Arkansas Illinois Illinois Indiana Ioda Ioda Ioda Ioda Ioda Ioda Ioda Iod	000004804646600000000000000000000000000	8.7.8.7.8.8.4.8.6.6.8.8.8.4.	8.6 8.4.4.4.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	87 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- E E E 44- V 5 - V 5 E E E E E E E E E E E E E E E E E E	6 8 8 4 4 5 0 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8.0.8.4.1.7.6.1.8.4.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	7.8.00 0.4.4.7.6.8.4.6.8.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6	23.3 2.5 2.5 2.5 2.5 2.5 2.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	4 0 0 4 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.3 2.2 2.2 2.2 2.2 2.3 3.3 3.3 5.0 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	6.1 1.4 1.0 1.0 1.4 1.4 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	ឧកម្មភពលាលខ្មាញក្នុង ក្រុមប្រជុំស្និក្សាស្ត្រក្សា	6.3 3.7 3.7 104.2 106.6 10.3 10.3 17.0 17.0	3.0 2.9 2.9 3.6 3.6 7.5 8.7 2.8 2.8 2.8 2.8 1.6 1.0 1.0 1.0	8.9 1.7 4.6 .9 .6 .6 .6 .6 .6 .6 .6 .6 .7 .7 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	5.3 100.3 100.3 16.1 16.1 23.1 23.5 18.4 18.4	2.6 2.7 2.2 7.2 7.3 67.2 7.9 7.9 1.8 1.8 1.8	2.8 2.8 3.8 3.8 3.8 13.8 17.6 2.0 2.0 2.4 3.1 3.1 3.1 3.1 3.2 3.3 5.2 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	9.8 3.3 7.6 8.1 107.5 9.9 9.9 3.2 22.1 3.2 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	6.0 4.6 2.2 2.2 8.0 8.0 10.7 10.7 4.6 4.1 18.0 8.1 4.1 18.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 10.7 8.0 8.0 8.0 8.0 8.0 10.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	5.9 4.7. 8.7 8.7 10.6 13.3 13.3 13.3 15.0 1.6 5.0 11.3	7.9 7.7 6.2 11.6 11.6 13.4 9.0 9.0 9.0 9.0 9.0 13.4 13.4 13.4	7.7 8.4 4.6 7.5 10.1 78.0 16.9 12.8 12.8 2.9 33.2 219.8	11.9 5.7 5.7 3.4 10.5 2.8 2.8 2.8 2.8 5.3 5.3 5.3	
Contral Colorado Kansas Montana Montana New Mexico North Oakota South Oakota Fexas Montanino Montino Montino Montino Montino Montino Montino Montino Montino	0.004.00.4 0.004.00.8 0.007.00.8 0.007.00.8	2.0 3.9 4.6 6.4 1.3 5.7 6 0 8 0	3.7 3.5 3.0 3.1 2.7 5.0 5.0	3.9 3.9 3.6 2.0 2.0 3.7 7.7 7.7 4.5	3.9 7.7 7.5 7.5 7.6 8.6 8.6 8.6 8.6	6.0 3.8 3.7 4.7 3.9 4.9 6.9	3.7 1.0 ³ 3.7 5.1 5.1 6.9	1.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.64.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	2.5 2.0 3.3 1.0 5.5 5.5 5.5 7.5 5.5 7.5 7.5 7.5 7.5 7.5	4.5 1.0 1.0 1.1 1.1 1.1 1.1 1.2	2.7 1.8 3.1 3.1 8.1 8.1 7.7 7.7 7.7	EEE - EE 4 7 4 4 6 7 6 6 E 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	4.14 4.12 4.2 2.2 2.0 20.3 34.3	1.6 0 2.5 tr. 3.1 2.3 9.8 9.8	3.0 0 0 1.6 1.8 1.8 .8 .8 .7 20.5 0	2.6a 0 3.3 3.3 2.7 2.7 10.2 tr.	1.54 1.4 1.6 1.8 17.5 17.5 35.9	1.7 4.8 tr. 2.9 .3 5.7 1.6 2.0 34.0	2.1 1.8 3.7 3.7 3.7 6.2 2.4 2.4 1.8 81.4	1.3 4.3a 3.5 5.0 2.5 1.7 27.1 45.8	32.9 32.9 32.9 32.9	1.3 3.5 3.5 1.3 3.4 3.4 3.4 53.7	3.7 11.4 2.3 tr. 4.8 2.3 2.3 32.2 48.2	1.9 2.3 4.5 2.2 2.2 8.6 10.0 10.0 51.2 51.2 51.2 81.9	m m - 10 01 10 0 > 01 10 0
Pacific Arizona California Calorado Idaho Montana New Mexico Oregon Usah Washington Myashington Myashington Myashington	0.0.0.4.04.0.0.0.0.0.0.0.0.0.0.0.0.0	7.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	3.7.7 3.7.7 3.7.7 3.0 5.0 6.0	10.0 9.8 3.0 7.0 1.0 7.4 7.3	7.7.5 7.7.5 7.7.5 7.7.5 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6 7.7.6	1.74 2.88 2.60 2.60 0.00 0.00	11.8 6.8 2.9 4.9 4.9 3.1 5.1 5.1 5.5	27.28.49.7 2.2.44.7 2.2.44.7 2.2.44.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.7 2.4.	2.3 2.0 3.2 3.7 5.0 5.0 6.7 7.3 7.3	0.00 8.5.5 8.5.0 1.3.0 1.3.0 4.0	5.0 2.7 2.7 2.7 5.2 3.8 6.4 6.4	0.25.2.4 4 4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	4 /	1.3 29.7 tr	29.2 29.2 .1 .2 .2 .3 .1 .1 .7 .1 .1 .7 .1 .1 .7	33.5 1.0 0.7 0.7 1.7 19.5 tr. a	58.0 3.1 1.8 1.8 1.7 8.7 8.7 8.7 94.3	53.5 tr. 2.3 7.4 0 8.5 2.9 tr. 84.9	55.8 2.2 2.2 .9 1.0 a 13.6 5.0 25.9 25.9	1.8 57.7 2.7 1.1 1.9 tr. 3 7.3 5.6 23.9	47.8 3.1 3.3 3.3 12.2 12.2 14.4 185.7	1.1 68.0 7.1 2.2 3.3 4tr. 11.9 2.1 16.7	52.0 3.2 3.2 1.4 2.2 0 0 111.7 6.4 21.5 tr.	11.5 11.6 11.6 11.2 12.3 15.3	73.9 3.0 2.0 2.0 1.9 tr. 15.7 3.3 20.9	
Alaska	Unk.	8.8	4.7	5.4	6.5	5.2	2.7	3.7	5.2	5.2	8.3	6.5	5.7	Unk.	2.8	1.4	1.4	2.8	1.8	۲.	9.	3,3	2.7	3.8	4.8	-
Grand Total	6.3	5.3	5.6	6.2	5.6	5.8	5.6	5.3	5.5	9	L.	5 7	5.7	355.3	5.4.2	329.3	407.5	330.1	493.5	529.1	17 3 6	6K] ,	147.5	7.171	6.4.0	_

Daverage for those years during which the season was open.

Table A-10. Sandhill crane hunting activity and success by hunters purchasing duck stamps: 1966-75

	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	Average
Alaska Number hunting Percent hunting Total bag Average bag	590 5.6 460 0.8	310 3.1 440 1.4	290 2.4 340 1.2	340 2.6 380 1.1	470 3.6 720 1.5	250 1.7 160 0.6	290 2.0 100 0.3	540 3.2 1,440 2.7	560 3.5 1,050 1.9	350 2.3 290 0.8	400 2.9 540 1.4
Texas Number hunting Percent hunting Total bag Average bag	_ <u>a</u> - - -	/ 740 0.7 1,390 1.9	1,110 1.2 1,110 1.0	1,630 1.4 3,860 2.4	1,100 0.8 2,560 2.3	1,630 1.2 4,130 2.5	1,390 1.1 2,270 1.6	1,570 1.4 7,500 4.8	1,800 1.5 4,700 2.6	2,110 1.6 7,010 3.3	1,450 1.2 3,840 2.6
New Mexico Number hunting Percent hunting Total bag Average bag	-	:	380 6.0 1,430 3.7	210 3.8 430 2.0	600 9.1 1,120 1.9	710 9.8 1,260 1.8	130 2.0 180 1.4	290 4.8 420 1.4	180 2.4 220 1.2	410 5.6 710 1.7	360 5.4 720 2.0
Colorado Number hunting Percent hunting Total bag Average bag	<u>b</u> /	' - - - -	110 0.3 0	330 0.9 230 0.7	410 1.0 590 1.4	750 1.6 500 0.7	360 0.9 370 1.1	310 0.7 610 1.9	670 1.6 760 1.1	350 0.9 80 0.2	410 1.0 390 1.0
North Dakota Number hunting Percent hunting Total bag Average bag			270 0.7 120 0.4	820 1.9 370 0.4	840 1.7 520 0.6	330 0.6 130 0.4	520 1.0 890 1.7	420 0.8 1,130 2.7	1,220 2.2 1,530 1.3	2,600 4.4 3,030 1.2	880 1.8 960 1.1
Oklahoma Number hunting Percent hunting Total bag Average bag			130 0.5 30 0.3	170 0.6 110 0.7	160 0.5 80 0.5	120 0.3 120 1.0	80 0.2 0 0	450 1.4 420 0.9	490 1.5 460 0.9	410 1.2 1,080 2.7	250 0.8 290 1.2
South Dakota Number hunting Percent hunting Total bag Average bag			0 0 0	0 0 0	20 0.1 50 2.0	90 0.2 90 1.0	250 0.5 120 0.5	30 0.1 90 3.0	220 0.5 380 1.7	0 0 0	80 0.2 90 1.2
Montana Number hunting Percent hunting Total bag Average bag							30 0.1 0 0	100 0.4 20 0.2	250 0.9 130 0.5	80 0.3 0	120 0.4 40 0.3
Wyoming Number hunting Percent hunting Total bag Average bag							20 0.2 0 0	70 0.8 80 1.2	10 0.1 30 2.1	130 1.8 0 0	60 0.7 30 0.5
TOTAL Number hunting Percent hunting Total bag Average bag		urvey omplete	2,300 0.9 3,000 1.3	3,500 1.2 5,400 1.5	3,600 1.1 5,600 1.6	3,900 1.1 6,400 1.7	3,000 0.9 3,900 1.3	3,800 1.1 11,700 3.1	5,400 1.5 9,200 1.7	6,400 1.7 12,200 1.9	4,000 1.2 7,200 1.8

a/ Dashes indicate that no data are available as questionnaire used did not include crane question. b/ Blank space indicates that the season was not open on cranes.

Table A-11, Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted soras: 1964-75.

	Average	180 40 40 20 320 330 40 40 40 40 40 40 40 40 40 4	40 10b 100b 700b 700b 1,040 260 250 250 270 20 270 20 270 20 20 20 20 20 20 20 20 20 20 20 20 20	50 120 170 170 170 240 171 1800	6,320
	1975-	90 90 90 90 90 90 90 90 90 90	20 60 90 260 890 0 1,440 420 810 100 130 380 4,920	160 420 350 _a 310 310 0	8,830
	1974-	160 40 40 40 40 190 20 88 80 140 70 70 70 70 70 810 70 810 70 810 810 810 810 810 810 810 810 810 81	20 0 100 130 680 680 460 460 400 400 130 130 330 120 330 330 330 330	270 330 160 0 30 290 0 0 0 1,080	7,330
	1973-	170 60 60 230 90 80 90 80 90 11,070 100 100 100 100 100 100 100 100 100	40 0 70 1170 830 20 11,150 270 270 270 490 460 0 3,820	70 150 190 _a 0 310 0 730	6,930
	1972-	300 330 330 330 330 330 300 500 500 500	60 0 1120 410 20 11,950 360 360 360 0 3,840	20 90 230 _a 0 440 10 0 790	7,420
2	1971-	180 360 360 360 0 0 0 1,030 120 120 120 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	40 0 110 160 0 0 0 0 210 210 280 280 40 40 40 2,210	20 160 50 _a 300 70 600	5,520
r hunti	1970-	260 100 100 100 100 110 110 150 150 150 15	30 2270 90 90 03 360 380 80 80 80 80 80 80 80 80 80 80 80 80 8	50 210 0 260 260 110	8,070
Numbe	1969-	210 320 320 50 50 200 160 160 300 300 300 210	90 60 60 160 20 270 270 270 580 40 310 40 40	180 180 100 30 30 30 30 30 30 30 30 30 30 30 30 3	6,490 8
	1968-	190 20 20 360 360 70 710 90 710 90 70 80 80 80 80 80 80 80 80 80 80 80 80 80	0 0 40 60 0 37 120 180 200 80 0 0 0	20 130 30 30 290 290 540	3,790
	-7961 68	160 50 50 60 290 30 60 60 60 60 70 70 70 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	80 50 30 30 30 30 30 30 30 30 30 50 50 220 220 60 110 61	30 20 20 100 20 20 20 20 20	2,590
	1966-	190 60 330 290 40 10 290 90 10 140 140 140 140 140 10 30 30 30 30 30 30 30 30 30 30 30 30 30	30 40 20 20 20 30 30 30 120 120 80 2,000	30 180 0 0 170 380	4,950
	1965-	140 130 70 260 230 80 230 80 11,060 140 20 50 50 50 50 50 50 50 50 50 50 50 50 50	0 203 103 0 0 0 0 630 630 130 130 20 20 20 20 40 40 40	10 130 20 10 70 210 _a 100 100	5,040
	1964-	60 60 560 80 80 80 140 170 170 180 50 50 50 50 50 50 50 50 50 50 50 50 50	20 0 0 0 20 1,120 280 130 280 260 30 30 30 2,300	30 310 100 0 30 150 _a 40	5,920
	99e	2400 E E E E E E E E E E E E E E E E E E	3 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	22 12 22 25 25 25	4
	- 6 Aver	2	2,11,4,11,000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	- 1975-	* ************************************	4	4.7.8 8. 6. 0. 0. 4.	.5
	- 1974- 4 75	5		a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.
	- 1973- 3 74	8	e 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	4.
ing	- 1972- 2 73	2.3 2.1 2.2 2.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	400 e e e e e e e e e e e e e e e e e e		4.
ge hunt	1971-	2.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		tr	.3
rcenta	1970-	7.1 8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 E 8 6 7 7 6 E 6	2.2 8.0 0.0 0.0 0.0	4.
Pe	-1969-) 70	7.1 0.1 6.6 6.5 2.5 2.5 2.5 1.1 1.1	9.00 mg		4.
	1968-	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 41103500	133 133 147.	ω,
	1967-	1.8 1.9 1.0 1.0 1.0 1.4 1.4 1.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	2 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	0 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	4.
	1966-	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2,00 tr. 0 6 t		4,
	1965-	8.11.53.33.55.11.64.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.11.14.14	00 11. a 8 8 8 1. 7. 7. 7. 7. 7. 8 8 8 1. 7. 7. 7. 7. 7. 7. 8 8 8 1. 7. 7. 7. 7. 7. 7. 8 8 8 1. 7. 7. 7. 7. 7. 7. 8 8 8 1. 7. 7. 7. 7. 7. 8 8 8 1. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	-406.00 -0	4.
	1964-	8.000000000000000000000000000000000000	2.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.1 1.1 1.3 0 1.3 1.3 1.5 1.5	3
		e			
Fluman and Stato		Atlantic Commerction Commerction District of Columbia District of Columbia Reprint Rep	Mississippi Arlabama Arlabama Arlabama Indiana Indiana Iowa Kentucky Louisiana Minnesota Mississippi Ohio Ohio Tennesse Missornsi Ohio Tennesse Misconsi	Central Colorado Kansas Nebraska Nebraska New Mexico Oklabowa Texas Hyomia Other States ^a Other States ^a	Grand Total

Also open season on rails in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest. Figures for New Mexico and Wyoming are included in "Other States" total when rail season was not open there.

**New Also of those years during which the season was open.

Table A-12. Annual State-level estimates of the average and total harvests of soras by sora hunters who purchased duck stamps: 1964-75.

	1974- 1975- 75 76 Average	11.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	tr. tr. 1 1.2 1.8 1.3 2.0 3.9 3.0 7.6 3.9 0.0 0.0 0.0 1.3 1.8 1.6 1.3 1.4 1.4 1.4 22.3 12.4	1.3 .3 .5 .1 .5 .1 .1 .3 .1 .5 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
	1973- 19	2. 1. 1. 2. 1. 1. 2. 1. 1. 2. 1. 1. 2. 1. 1. 2. 1. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1.	tr. 0 tr. 3.5 6.3 6.3 1.7 1.7	 1.0 _a 0.1 0.0 0.0
sands)	971- 1972-	5 2.4 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	tr. 1 tr. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tr. tr13 1.0a 0 0 0 0 2.22 0 1.11
t (in thou	1970- 197	11.6 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	tr 1.3 1.3 1.4 1.4 1.4 1.6 1.6 1.6 1.6 1.7 1.8 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.7 tr
al harves	1969-	., 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tr. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tr. 1.9
Tota	7- 1968- 68 69	tr. 1.00	1 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tr
	-6961 -9961 -63 68	2.85	tr	tr. 0 .5 0 0 tr. 0 .2 1.2 .7
	1965- 1		tr. a 5.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0 0 0 0
	1964- 65	2.0 0.0 0.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	00 00 00 00 00 00 00 00 00 00 00 00 00	2.0 2.0 0 0 1 1 4.2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Average	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8.4.6.2.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	1.8 2.8 2.8 1.7 1.7 32.4 3.0
	1975-	1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	1.5 12.5 12.5 13.3 13.3 13.3 14.5 17.8 17.8 17.8 17.8 17.8	2.3 2.3 4.0 4.0
	3- 1974- 74 75	8 8 8 1 1 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2.4 9 4.0 4 1.7 1.0 6 1.0 6 2.4
	972- 1973- 73 74	25.8 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 2.2 4.3 5.4 5.6 5.6 5.6 5.6 5.6 5.6 5.6
/est	971- 19	13.9 8 6.56 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6.6 14 6	1.7 01 .2 1.3 1.3 1.3 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	2.0 1.5 1.5 4 1.5 4 2.9 75 1.0 5 2.2 5
rage harv	1970- 1	1 2 3 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	2.0 3.2 ₃ 3.2 ₃ 6.7
Ave	1969-	2.5. 4.4. 6.9. 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.0000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.000 7.	3.0 1.5 a 1.2.2 3.0 3.0 3.0 1.0 1.0	3.3
	- 1968- 8 69	2.2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	a 5.0 ₀ a 5.0 ₀ a 5.0 ₀ a 6.0 ₀	2.100.100.200.200.200.200.200.200.200.20
	67 1967 67 68	2 3.4 3.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	1.0 1.0 2.0 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	1.0 0 0 0 1.0 0 1.0 7 3.5
	1965- 1966- 66 67	14.2 14.2 14.2 14.2 16.2 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3		0 1.0 0 2.0 0 1.4 1.4 2.0 0 7.0 0 4.7
	1964- 196	3.4 4 .2.2 5.6 6 .2.0 27.3 12.7 27.3 12.7 27.3 12.7 27.3 12.7 27.3 12.7 27.3 12.7 20.5 2.0 20.5 2.0 20.5 2.0 1.5 2.0 20.5 3.0 20.5 3.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 6.6 7.0 3.0 1.0 27.8
Flyway and State		Atlantic Connecticut Oclamae Florida Sistrict of Columbia ^a Florida Maryland Maryland Maryland Maryland Maryland Maryland More Corolina Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania	opí Total	ado \$ s \$ s \$ s \$ c xxico xxico oma oma \$tetes ^a \$tetes ^a

also open season on rails in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest. Figures for New Mexico and Wyoming are included in "Other States" total when rail season was not open there.

Deverage for those years during which the season was open.

Table A-13. Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted rails other than soras: 1964-75.

	Average	130 20 30 930 930 930 150 150 150 150 150 150 150 150 160 170 170 170 170 170 170 170 170 170 17	140 40,40 150 250 250 280 280 280 230 80 140 140 5,530	40 220 220 10 10 40 10 10 50 1,390	14,260
	1975-	70 140 30 980 600 60 260 240 0 270 570 500 500 500 500 500 500 500 500 5	130 170 160 220 220 20 210 400 530 0 130 70 80	80 260 40 _a 1,130 0 30 1,640	18,890
	1974-	260 220 720 720 520 220 203 203 11,690 1,230 0 1,020 590 590 590	170 0 130 130 290 290 20 170 460 420 130 220 0 350 7,900	60 160 70 30 70 840 840 0 40	16,390
	1973-	80 80 97 97 580 580 170 177 170 172 800 800 0 1,320 1,400 1,400	50 200 140 420 7,080 210 270 230 120 250 250 160 9,176	30 70 190 _a 0 820 10 80	17,950
	1972-	1990 70 940 320 320 160 160 1,570 280 1,090 970 970 970	90 90 90 30 60 60 8,990 70 70 240 90 60 60 60 60	20 30 160 _a 40 1,450 10 30	19,880
ing	1971-	1,080 1,080 1,080 1,080 1,080 1,080 1,530 200 1,530 1,530 1,60 470 470 470 470 470 830 830 830	60 130 50 ³ 200 30 ³ 30 ³ 30 ³ 120 120 180 630 630	40 80 120 _a 0 970 30 1,260	14,940
ber hunt	1970-	140 170 1,630 20 20 23 180 1,670 1,670 660 100 60 2,080 940 940 940	160 3360 3360 30 60 60 680 350 610 0 90 60 60 8,910	30 11,510 110 _a 60 1,500 200 200 3,400	21,370
Num	1969-	80 220 220 1,390 1,010 110 110 110 110 110 110 110 110	490 609 160 160 508 0 190 290 170 8	60 110 100 20 80 2,560 0 80 80 80	19,940
	1968-	120 100 1,220 340 190 160 980 200 200 140 70 840 20 520 140 520 520 140 540 570	370 0 0 0 0 0 30 290 440 0 0 0 0 440 0 0 440 0 0 0 0 440 0 0 0 0 0 0 0 0 0 0 0 0 0	20 30 70 10 90 470 0 0	10,380
	1967- 68	170 90 90 1,080 130 30 160 20 20 20 170 170 60 670 670 670 670 670 670 670 670 67	40 0 0 0 0 0 0 37 27 27 27 27 27 0 0 0 140 0 140 0 140 0 140 0 140 0 140 0 140 0 0 0	20 80 80 190 190 290	10,840
	1966- 67	90 30 10 510 100 40 80 11,520 240 180 180 190 0 220 0 3,440	30 0 0 0 30 30 20 20 130 130 100 100 100 100 2,500	30 220 20 10 10 450 _a 730	6,670
	1965-	100 70 30 340 90 60 100 130 70 70 70 70 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	30 0 0 0 0 1 0 2 0 1 130 130 110 80 110 80 110 110 80 110 110 110 1	30 80 80 10 80 80 80 80 130 610	5,840
	1964-	80 130 0 36 120 70 170 170 170 480 480 90 290 290 290 290 3,840	70 0 0 70 70 60 60 370 100 100 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	30 140 60 0 0 0 530 _a 30	8,020
	Average		0-1-2-4-1-7-6-1-2-8-1-2-8-1	-4557-84	6.
	1975- 76	1.1 1.7 1.7 4.0 4.7 4.7 7.1 1.3 3.2 1.3 3.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.00	1 _a 1 _a 1 _a 4	=
	1974-	9.1.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9	E. 0 444 444 444 444 444 444 444 444 444	to 07.	6.
	1973-	6. 23.5 8.1. 8.1. 8.1. 8.1. 8.1. 8.1. 8.1. 8.1.	4.0 5.2 5.7 5.7 5.7 5.7 5.7 5.7 5.7 6.7 6.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7		=
	1972-	2.5 2.5 2.5 6.0 0.0 0.0 0.0 0.0 1.1 1.1	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	tr. 3. 1.1.	2
hunting	1971-	0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	4.0. 0. 0. 0. 0. 4. 0. 4. v. 0	1	80
centage	- 1970- 17 0	2. 1	0.0 8 4.0 8.2 2.3 2.3 2.3 2.3 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0		=
Per	8- 1969 69 7	6.1 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	3.4 s s s s s s s s s s s s s s s s s s s	2234620	1.2
	196	0 0 1 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.7 a	LEGG45000	7.
	961 -	2.0 2.0 2.0 2.0 2.0 2.0 3.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5	a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0		7. 6
	196	0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	200 8 - 13 - 25 - 15 - 15 - 15 - 15 - 15 - 15 - 15	ro	5 .5
	196	1.3 1.4 1.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	2.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		. 7.
	1964- 65	0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1	2.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.5.5.00 00 .5.5.00 .5.5.00	
	Flyway and State	Atlantic Comecticut Delaware District of Columbia Sistrict of Columbia Rarian Maryland	Mississippi Artansa Artansa Artansa Artansa Infinois Infois Infois Infois Infois Infois Infois Mississippi Missouri Ohio Hisconsi Firmasa Infois Missouri Ohio	Central Colorado Kansas Nebrasska New Mexico Oklahoma Fexas Hyoming Pyway Total	Grand Total
1					

also open season on rails in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest. Figures for New Mexico and Wyomlng are included in Other States' total when rail season was not open there.

Diverage for those years during which the season was open.

Table A-14. Annual State-level estimates of the average and total harvests of rails other than soras by rail hunters who purchased duck stamps: 1964-75.

1973- 1974- 1975-74 75 76 Average

1972-

Flyway and State

1964- 1965- 1966- 1967- 1968- 1969- 1970- 1971- 1972- 1973- 1974- 1975- 65 66 67 68 69 70 71 72 73 74 75 76 Average

1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0																									7	0	Date age
1.6 1.8 1.0 1.0 1.8 1.2 1.7 12.4 15.2 10.2 13.6 10.3 13.1 13.0 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1	Atlantic Connecticut Connecticut Connecticut Connecticut Connecticut Columbia district of Columbia Maine Maryland Massachusetts New Hampshire New York North Carolina Rhode Island Rhode Island Couth Carolina	2.5. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5.	2.9 1.0 1.0 1.0 2.6 2.8 3.3 3.9 1.8 6.7	5.1 1.5 75.0 10.6 17.1 1.7 4.1 4.1 1.3 12.3 12.3	2.7 3.33 30.0 7.7 2.0 6.8 6.8 6.2 1.0 1.0 1.0						0.5000 0.5000 4.500 1.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.50000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.50000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0			200 2	1.0 LL	2.4. 2.1. 3. 0.3. 2.2. 1.3. 2.4. 2.4. 2.4. 2.4. 2.4. 2.4. 2.4. 2		55.1.3 8.2.3 8.2.3 1.1 1.1 1.1 1.1 2.8 2.8 2.8 2.8 1.3	15.23 1.74 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	tr			1.0 1.0 1.6 2.9 2.9 2.9 2.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	25.7 1.9 1.9 1.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8. 3. 2. 2. 2. 3. 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	10.5 10.6 1.9 1.9 13.0 13.0 13.0	44 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
1.0 18 1.0 1.0 3.8 4.5 4.5 8.3 5.0 8.7 3.4 3.0 4.0 1.1 1.1 tr. tr. 114 2.2 7 5.5 5.5 5.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Virginia West Virginia Flyway Total	14.5 2.9 6.8	11.9	20.3	14.2	17.7	12.4				10.9			13.0 4.0 10.1	3.1	3.1	31.7	6.5 0 52.5	10.0	10.0 0 80.8			13.2	tr. 15.2 0 81.7	tr. 5.0 tr. 67.0		tr. 8.7 tr. 63.2
Total 3.4 1.2 5.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Mississippi Alabama Arkansas Illinois Indiana Iowa	1.0 4.0 ^a	1.8 1.9a 5.5a								1.6	3.0	3.0	0.4.6.6.0	0.3 tr.	-10 -13	.13	.00.00	1.4 0 1.1	2.2 0 .1 ^a	7.00 P.	5. E	4 4 6	4.0 % 2.2	9.0 4.5.	40000	95.55
Total 5.2 1.4 1.2 2.0 1.6 1.9 1.9 2.8 6.3 1.4 1.3 1.4 1.3 1.3 1.7 0 1.2 4.9 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	Kentucky Louisiana Michigan Minnesota	2.2	4.8								2.3	5.4	8.0	3.100.5	8.6	5.0 tr.	13.4	39.0	12.8	32.4	41.5 .9	22.5 5.3	53.2		tr. 29.4	63.3 1.8	31.5
2.7 .6 1.5 5.0 1.0 1.0 1.0 1.5 2.1 1.5 5.0 .7 1.8 .1 tr. tr. 1 tr. 1 tr. tr. 1 t	Missouri Ohio Tennessee Wisconsin Flyway Total	3.7	3.5	3.7	2.0 2.0 1.6 7.3	_	1.6				2.05.0	1.0	5.8 2.0 9.0 7.0	0.6.4.8.8 0.1.4.0.8.9		6.20 0.24.3		0 0 1	0 0 .7	1.2	50.05	.8 .0 .2.4	1.4 tr. .1	1.4	2.3	3.7	1.4
4.7 5 5.0 3.8 3.7 4.3 7.0 6.3 7.0 4.2 3.3 6.6 5.3 2.5 2.5 2.3 7.7 1.8 11.0 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1 10.5 6.1	Central Colorado Colorado Kansas Nebraska New Mexico Oklahoma	2.7		1.5 3.5 1.0		3.5	1.0					5.0 6.0 7.5	2.0 2.0 8	29 20 5.0 6.0		10.00	£	50500	tr. 2	555	.2 .2 .2	::: c	.33	s.	E 2 4	- 9-F	tr.22
5.1 4.1 7.6 8.7 6.5 6.5 8.9 7.0 7.4 8.9 6.6 8.5 7.4 8.1 20.1 5.06 00.2 5.7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	Texas Wyoming Other States ^a Flyway Total	4.7 _a		5.0			1.0					3.2	2.0	4 2 - 3 - 4 4 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	2.5 _a tr.	.3 E.7.	2.3 0 3.2	· · · · · · ·	2.2	0.11		6.7	10.2 0 tr.	3.4 tr.	2.8	7.5 0 0 .1	4.9 tr.b
10.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Grand Total	5.1	4.1	7.6	8.7	6.5	6.5	8.2	7.9	7,4	8.2	9.9	8.5	7.4	41.3	24.1	9.09	94,3	67.4	30.0	175.2 1	18.3	147.1	148.1	108.3	160.3	105.4

"Other States" total when rail season was not open there.

DAverage for those years during which the season was open.

Table A-15. Annual State-level estimates of the percentage and total number of hunters purchasing duck stamps who hunted common gallinules: 1964-75.

Flyway and State	1964-	1965-	1966-	1967-	1968-	1969- 70	1970-	1971-	1972-	1973-	1974-	1975-	Average	1964-	1965-	1966-	1967-	1968-	Number 1969- 70	hunting 1970- 71	1971-	1972-	973-		974- 1
ijantic Comecticut Delaware Delaware District of Columbia a Maine Maine Massachusetts Mew Jersey New Jersey Ne	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	2.09.83.00.22.77.77.7.22.00.00.00.00.00.00.00.00.00.00.00.00.	7. E. & E. C. C. & E. C. C. & E. C. C. & E. C. C. & E.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4.50° 00000 000° 5.0° 5.0° 5.0° 5.0° 5.0°	0005.00.005.004		2.00 E E E E E E E E E E E E E E E E E E	2.000000000000000000000000000000000000	.40° 00	4.000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.5000 1.500	2005 000 000 000 000 000 000 000 000 000	0000 000 000 000 000 000 000 000 000 0	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 20 20 20 30 40 60 60 60 70 70 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	20 30 30 30 30 30 30 28 28 28 50 50 50 60 60 1,190	10 20 20 30 30 100 100 170 170 80 80 80 100 100 100 100 100 100 100 1	500 500 500 600 700 700 700 700 800 900 900 900 900 900 900 900 900 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 40 670 670 670 130 360 130 130 120 120 17,760	00 00 00 00 00 00 00 00 00 00 00 00 00	20 460 0 0 0 2 0 0 0 2 2 0 0 0 0 1 140 0 0 0 0 0 0 0 0 0 0 0 0 0	20 60 60 60 20 20 20 20 20 30 40 40 60 60 60 60 60 60 60 60 60 60 60 60 60		60 60 20 20 20 20 20 20 20 20 20 20 20 20 20
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rorral Colorado Kanas Montana Nebraska Nebraska Nebraska Nebraska Nebraska Ner Lako North Dakota Fexas Fexas					2.2 0.0 6.0 6.0 6.0 6.0 6.0 6.0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tr. 2.3 0 0 2.4 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60000000000000000000000000000000000000	tr. a 0 - 0 5 - 0 6 - 0 6 - 0 6 - 0	.1 2 3 0 8 0 6 0 6 0 .0 6 0 .0 .0 0 0 0 0 0 0 0 0	13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 200 200 200 200 200 200 200 200 200	300000000000000000000000000000000000000	20 30 110 30 0 0 40 40	100 30 170 170 320	110 20 20 350 350 530	1,400 204 140 140 180 180 1,750	110 20 20 20 00 60 40 40 230	260 260 310	34000000000000000000000000000000000000		300 300 300 300 300 300 300 300 300 300
neific Arizona California California California Montana Mevada Mevada Mevado Meyado Meyado Meyanington Washington Washington	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25.000.55.00	0.0000000000000000000000000000000000000	0.000.000.00.00.00.00.00.00.00.00.00.00	2.0000111101	2. 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.000000000000000000000000000000000000	0.000,000,000,000,000,000,000,000,000,0	0.0000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2.00000 F	- F. 1- 7-0 1- 7-0 - 1	30 190 10 10 10 00 00 00 00 00 220	20 120 120 60 30 50 50 200 200 200 200	500 500 70 70 00 00 00 00 570	640 640 0 0 70 70 40 40 40 40 780	270 30 30 30 00 00 140 70 70	320 320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 360 70 50 00 110 40	550 00 00 60 60 60 60	350 60 60 50 100 560	590 00 00 40 00 640		560 30 20 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Grand Total .2 .3 .2 .2 .1	.2	ů,	.2	2.	-:	.2	٣.	2	.2	c	c	c	0	3.670	3 820	3.220	4.130	2.510	4,510	7.000	3.790	4 520	5.340	9	30

Two open season on gallinules in State where duck stamp was baverage for those years during which the season was open,

Table A-16. Annual State-level estimates of the average and total harvests of qallinules by gallinule hunters who purchased duck stamps: 1964-75.

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1964-	65	1.0 1.0 8.4 8.4 1.5 1.5 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.00 a 0.00 a 0.		tr.	20.6
	erage	14 4 4 4 7 1 4 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	3.0 2.5 2.0 2.0 2.0 3.0 4.0 4.0 1.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.2b -9b -9b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -19b -1	7.2 6.0 6.0 6.0 7.2 3.2 3.2 3.7 7.7 5.7	8.0
75-	76 Av	2.4 2.4 1.7 1.7 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8.0 1.0 1.0 10.4 10.4 2.0 2.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	1.0 a d d d d d d d d d d d d d d d d d d	15.5 2.4 11.0 11.0 10.1 10.0 10.0 10.0 10.0 10	
1974- 19		7.1.1.0.3.3.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	10.00 3.00 3.33 1.00 1.00 1.00 1.00 1.00	2.0a 2.0a 2.0a 2.0a 4.5a 1.5a	2.5 6.8 3.0 3.0 1.5 1.5 5.9	
1973- 19		1.5 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 -	0.11.0	0.00 8 8 8 2 8 8 2 8 8 8 8 8 8 8 8 8 8 8 8	2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1972- 19	i	0.1 18.6 1.1 1.0 1.1 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	2.55 2.00 1.00 1.00 1.00 1.00 1.00	1.5 _a 1.5 _a 1.5 _a 1.5 _a 1.5 _a 1.5 _a	11.7	
971- 19		2.3.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	12.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	2.03 2.03 15.03 4.0 4.0	8.8 11 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
1970- 197		11.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	5.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.0 9.7 8 1.0 1.0 8.0 1.0 37.0	
1969- 197		11.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	2.0°2°2°3°3°4°4°4°4°4°4°4°4°4°4°4°4°4°4°4°4	1.7 5.0 5.0 2.5 6	2.0 1.8 3.0 3.0 8 1.1 3.0 8 1.1 3.0	
1.	69	25.7.2 9 9 2.2.5 2 2 2.5.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 1.4 2.0 2.0 1.4 7.4 3.7 2.0 2.0 2.0 2.0 2.0 3.7 2.4 3.7 3.7 3.7 3.7 3.7 3.7	8.4 1 1 . 0 5 1 . 0 3 3 4 4 2 2 4 4 6 2 2	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7- 1968	88	5.0 1.0 1.2 1.2 1.2 1.2 1.2 1.3 1.0 1.2 1.3 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	4.0 1.0 1.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	2.0 0 0 0 0 11.0 11.0 11.0 3 4 2.3 4	5.3 3.0 1.3 8.0 1.2 4.8 4.8	5.6
-1967 -9	- 1		5.5.8 5.5.8 11.0 11.0 11.0 11.0 12.0 13.0 14.9 14.9	3.0 2 3.0 2 3.0 3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.0	5.9 5
-9961 -9		33 - 1 - 1 - 4 - 4 - 8 - 8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	6 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14.6 5 0 0 7.4 2 10 0 0 0 0 0	.4
1- 1965-			22 22 44	4.3 6.0 1.0 1.0 9.9 9.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		5.6 4
1964-	-	_	2	40,5	20.1 2.6 6.0 6.0 1.1 1.1 1.1 4.7	5.
Flyway and State		Attlantic Connecticut Delaware District of Columbia District of Columbia Borine Haryland Masachusetts New Hampshire New Hampshire New Horsey New York New Jorsey New York New Jorsey New Torolina Penssylvania Rhode Island South Carolina Penssylvania Rhode Island South Carolina Penssylvania Rhode Island Hypway Total	Mississippi Artansa Artansas Ilinois Indiana Louisiana Kentucky Louisiana Minnesota Mississippi Missouri Ohio Tennesse Misconsin Hisconsin Hisconsin	Contral Colorado Rarsas Montana New Meszico New Meszico North Oskota South Oskota Texas Wyoming	Pacifica Arizona California California Calorado Idaho Montana Montana Ilevada	Grand Total

 $^{\rm d}_{\rm No}$ open season on gallinules in State where duck stamp was purchased, $^{\rm D}_{\rm Average}$ for those years during which the season was open.

Table A-17. Annual State-level estimates of the total harvest, in thousands, of American coots by waterfowl hunters of all ages: 1952-75.

4.1 2.3 1.9 8.6 1.3 1.9 .5 .4	of Columbia" 7 .7 .6 .2 .2 .2 .2 .2 .2 .134.2 77.4 111.2 141.9 119.8 .10 3.6 1.1 10.5 9.2	13.5 37.5 1.4 2.7 0 7.3 2.4 1.2	4 4.1 7.8 9.5	12.0 28.8 7.1 15.6	2.7 2.7 6.4 5.0	12.1 4.0 1.2	2. 0 .2 .4	0 36. 0 3.3		Alabama 2.8 3.0 3.8 13.4 7.4 Arkansəs 0 0 5.8 2.7 6.4	19.5 26.0 27.1	3.6 24.6 45.9 8.9 .5 .9	15.6 87.6 232.5 243.1 43.4 65.1 62.1 58.9	52.8 23.5 34.9 44.2	25.4 8.9 19.5	23.6 24.5 24.5 23.6 0 10.5 12.5 20.6 3	877.1 629.0 734.5	4.5 .7 2.2	3.6 .5 7.3 7.8 6.5 2.5 7.6 16.3	6. 6. 7. 9. 8	3.9 23.1 2.4 8.7	15.9 29.1 19.7 68.2	Wyoming 2.3 0 5.2 .8 1.2 Flyway Total 52.9 80.0 66.7 132.2 98.2	6,4	149.4 346.4	1.9 2.1	Mondana 2.1 5.2 2.8 3.8 1.5 1.5 2.8 3.8 1.5 2.8 3.8 1.5 3.8 1.5 3.8 3.8 1.5 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	8.9 26.9	12.8 5.5	Total 196.2 4	tr6 1.0 1.5
2.6	.1 .2 71.8 45.5 5.1 3.3	2.8	£	20.00	2.7	6.2	.2			3.7 1.7	31.6	7.7	58.6	69.3	8.7	6.7	458.1	6 6.8	3 11.8	1,5	6.3	3 72.6	1.1	3.8 3.9 ^b	413.8 343.1 S	6.6 8.0	ed in Central Flyway	Ě		F.	
<u>-</u> . E.	8.3 15.7 5.1.3	9, [۲. نع د . نع	6.6	2.0	1.7	0 9	0.0		6.6 18.2	23.7	7.0	70.1	46.3	3.5.	1,1	317.8	2.0	2.1	2.5	2.7	13.7	22.1 31.7		93.1 89.7	3.4 1.7	0 1.0	.3 10.8	.2 35.3	143.2	-Not in Surve
	23.8 25.7									4.4 6.1													17.3 13.2	00	75.2 85.2	4.5 1.7	7.		3.5 3.2 16.5 19.6	114.5 121.2	,
1.9	17.8	9.7	æ ∾ :	4.4	3.6	5.2	ţr.	6.0		8.6	3.6	ω, σ, σ ,	140,6	52.8	2 (1) 4	2.0	349.0	1.7	9. [6.6	9.0	20 ES	27.9	5.6	79.3	2.4	- 8.	11.4	5.8	123.0	
	1.0 .1									12.4 11.3 3.6 7.2													29.4 50.3							.1 .2	1
	4 66.0									3 20.4													3 53.1							7 283.1	
E. C.	62.1	8.5	4.1	13.6	17.3	13.9	60	8.55	67.70	17.9								10.5	9.6		11.7	20.4	1.3							tr. 256.0	.7
	34.0 74									9.8 10													39.4 8							tr. 146.6 28	9.
	74.4 86.9									10.2 17.2	158	24	462	88	13	3=3	991						7.0 .7 87.1 98.8							.1 .7	.5
	63.2									3.7	8 4	17	137	83	100	23	583	4 00		_ [10.5	56	186							7 .3 9 221.3	7 1.4
	51.8									12.3	28.9	20.4	401.8	107.6	12.9	10.6	874.7	3.8	9.3	9,00	15.9	43.5	1.3		_					188.5	.7
50,00	51.8	25.5	5.0	ພະນ ໝະນ	3.7	4.00	7.	8.02		11.6								3.4	1.0	1.0	16.0	27.7	93.0	12.2	147.6		6.1	14.7	15.3	215.7	1.0
	tr. 60.4							•	2	12.5	3.5	m œ	000	U 47 M	0 / 1	വെ	7	3.4												327.4 27	1.9
	62.4									28.7									0.9	αό π.	0 4	n 00	~							276.8 24	1,2
	61.8									7 14.2								1 2.9									4.8				

^a Not included in the survey the first six years; these figures are approximations based on trends. ^b Records incomplete because of loss of documents in fire; these figures are approximations based on trends.

Table A-18. Flyway-level summary of American coot hunting activity and success by waterfowl hunters. a 1952-63^b.

1963-64	14,300 5.35 77,700 5.45 93,300	47,700 8.40 349,000 7.32 410,000	7,300 2.78 27,900 3.85 37,600 25.84	19,000 5.87 123,000 6.49 176,000		88,200 6.22 577,700 6.55 717,000 19.43
1962-63 ^c	59,300 71,300 16.76	160,800 186,600 13.80	13,200 19,000 30,72	121,200 158,800 23.66		354,500 435,600 18.62
1961-62	7,200 3.14 45,700 6.50 58,000 19.51	20,900 4.00 113,400 5.42 140,200 19.12	4,600 1.66 17,300 3.73 25,000	15,100 5,33 114,500 7,58 160,400 28,62		47,800 3.64 291,900 6.10 383,600 23.92
19-0961	8,500 3,29 47,500 5,62 60,200 21.07	52,000 7.03 317,800 6.11 393,900 19.31	10,500 2.74 31,700 3.03 45,600 30,56	17,800 5.65 143,200 8.06 179,500 20.25	survey	88,700 5.24 540,200 679,200 679,200
1959-60	5,700 2,39 18,000 3,16 26,100 31,23	37,200 5,34 137,600 3,70 193,300 28,84	8,300 2.28 22,100 2.66 34,400 35.70	19,500 6.55 138,000 7.09 183,900 24.94	Not in	70,700 4.43 315,700 4.46 437,800 27.88
1958-59	19,400 6.02 98,100 5.07 124,400	69,800 7.50 458,100 6.57 546,400 16.17	27,600 5.51 126,700 4.60 178,900	39,100 10.14 464,500 11.88 557,500 16.68		155,800 7,29 1,147,400 7,36 1,407,200
1957-58	18,800 5,37 126,200 6,70 153,400	73,800 7.39 407,700 5.52 489,100 16.64	30,800 5,56 133,100 4,33 173,300 23.16	38,800 9.32 503,800 12.98 605,300 16.77		162,200 6.99 1,170,800 7,22 1,421,000
1956-57	26,700 7,16 189,700 7,10 224,500 15,52	86,500 8,52 587,900 6,80 693,100	24,700 5.03 98,200 3.98 126,600	39,900 9.56 545,000 13.65 655,000		177,800 7,74 1,420,800 7,99 1,669,100 16.38
1955-56	31,600 8,32 235,000 7,45 284,600	102,100 10.08 734,500 7.19 878,800 16.42	32,700 6.29 132,200 4.04 167,800 21.21	47,000 11.29 474,400 10.09 597,100 20.55	500 4.69 1,500 3.39 1,500	213,800 9.15 1,577,700 7.38 1,929,900
1954-55	23,900 7.08 183,500 7.67 217,300 15.59	91,600 10.01 629,000 6.86 736,000	18,100 3.81 66,700 3.67 93,100 28.41	43,400 10.46 456,600 10.52 542,100 15.78	300 2.37 1,000 3.87 1,200 20.68	177,400 8.23 1,336,700 7.54 1,589,900
1953-54	29,900 8,91 277,900 9,30 327,600 15,16	116,500 12.40 877,100 7.53 1,051,500 16.59	17,900 3.52 80,000 4.46 99,800	37,600 8.41 401,000 10.65 485,100	200 1.61 600 3.56 800 26.30	202,100 9.02 1,636,600 8.10 1,964,800 16.70
1952-53	31,400 10,26 313,100 9,96 388,800	118,200 12.03 883,000 7.47 1,039,900 15.09	15,100 3.01 52,900 3.50 76,300	30,800 6.59 196,200 6.38 231,900 15.38	trace 0.52 trace 1.00 330	195,600 8.63 1,445,300 7.39 1,737,200 16.80
	Atlantic Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Mississippi Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Central Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Pacific Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Alaska Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	TOTAL Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved

a Numbers of successful hunters include only duck stamp purchasers while harvest and mortality estimates include birds taken by waterfowl hunters of all ages.

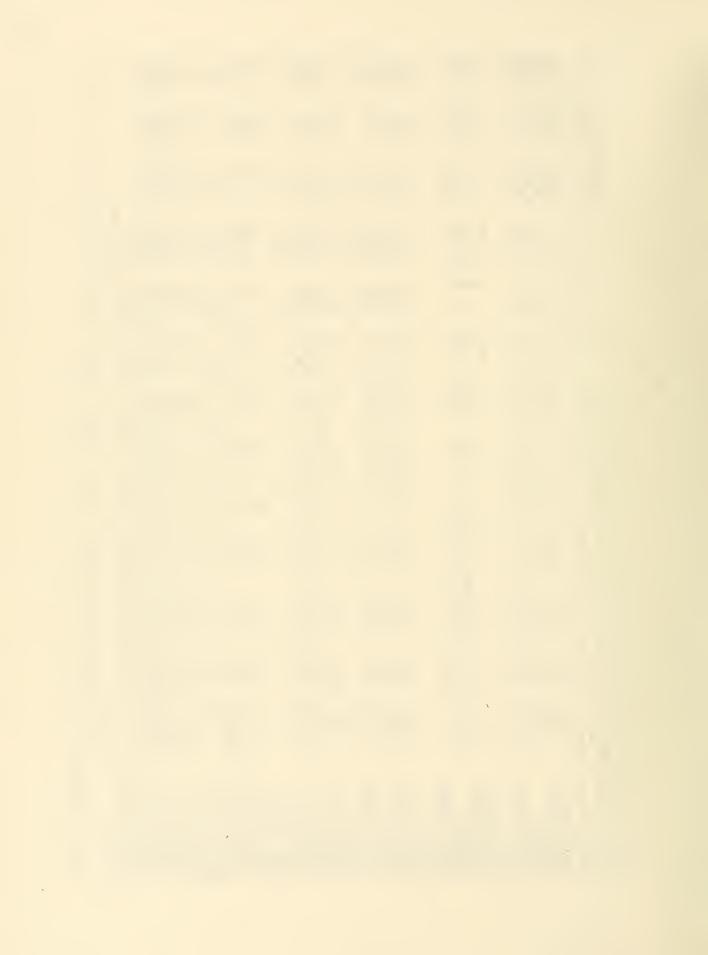
b A number of changes were made in the questionnaire form during this period, several of which had marked affects on the results, most noticeable in the data for the 1959 season. Because of the variable quality of these data, long-term averages have not been calculated and the reader is especially cautioned that the activity and bag for the 1959, 1960, and 1961 seasons appear to have been greatly underestimated.

^C No tabulation of successful coot hunters has been made for 1962.

Table A-19. Flyway-level summary of American coot hunting activity and success by waterfowl hunters: a 1964-75.

Average	26,000 6.55 165,800 6.37 198,400	86,000 10.48 687,400 8.00 816,700	19,200 5.17 78,100 4.06 110,100	32,500 8.37 242,800 7.46 319,300 23.96	200 1.64 900 4.12 1,100 15.94	164,000 8.24 1,174,900 7.17 1,445,400 18.72
1975-76	35,200 8.27 236,600 6.72 279,900 15.46	105,500 11.74 878,300 8.32 1,036,500	24,500 5.74 95,100 3.89 132,800 28,39	35,500 9.05 276,800 7.80 352,000 21,38	300 1.72 1,200 4.58 1,400	200,900 9.31 1,488,000 7.41 1,802,600
1974-75	22,800 5,23 151,500 6.64 181,200	85,100 9.69 664,700 7.81 785,600	24,100 5,72 107,900 4,47 143,300 24,74	35,900 9.32 327,400 9.12 407,800 19.70	200 1.21 400 2.17 500 16.60	168,100 7.86 1,251,900 7.45 1,518,400 17.55
1973-74	20,000 4,70 133,000 6. 66 159,600 16.67	67,200 8.21 478,600 7.13 571,700	21,100 5.17 93,000 4.40 122,800 24.30	30,500 7.97 215,700 7.08 264,100 18.33	300 1.61 1,000 3.67 1,100 9.76	139,000 6.78 921,300 6.63 1,119,300
1972-73	25,300 5.89 153,200 6.05 183,900	107,300 11,92 874,700 8.15 1,038,000	24,700 5.85 115,300 4.68 161,600 28.64	32,200 8.40 188,500 5.85 234,400 19.58	200 1.27 700 3.75 800 10.01	189,700 8.82 ,332,4 00 7.02 ,618,700 17.69
1971-72	33,200 6.74 231,300 6.97 278,000 16.79	94,200 9,48 583,300 6.19 704,200 17.17	24,600 5.45 86,700 3.53 127,600 32.04	36,100 8.35 221,300 6.13 307,600 28.07	300 2.24 1,400 4.23 1,700 20.51	188,400 7.90 1,124,000 1 5.97 1,419,100 1
1970-71	33,000 6.74 206,400 6.26 245,900 16.06	112,100 11,22 991,000 8.84 1,188,700 16.63	24,700 5,67 98,800 4,00 135,800 27.26	39,300 8.65 362,900 9.23 481,800 24.67	200 1.56 700 3.46 800 9.29	209,300 8,75 1,659,800 7,93 2,052,900 19,15
1969-70	29,300 6.77 167,400 5.72 205,200 18.41	89,700 11.16 661,400 7.38 781,600 15.37	22,100 5.94 87,100 3.94 121,300 28.21	38,100 9.00 285,500 7.49 390,700 26.91	300 1.97 500 2.00 600 16.16	179,400 8.77 1,201,900 6.70 1,499,300
1968-69	17,500 4.64 99,800 5.69 119,100	52,400 7.42 386,700 7.38 468,500 17.45	10,800 3.35 39,400 3.66 55,100 28.47	29,500 7,54 146,600 4.97 198,500 26.12	100 1.06 600 4.43 900 32.32	110,300 6.10 673,200 6.10 842,100 20.06
1967-68	25,900 7.28 167,300 6.45 199,100 15.99	90,900 11.26 686,600 7.55 818,400 16.11	20,100 5,61 81,600 4.06 123,800 34.13	35,500 9.39 256,000 7.21 336,600 23.93	200 2.07 700 3.52 800 12.74	172,700 9.04 1,192,200 6.90 1,478,700
1966-67	31,800 9,62 182,400 5,74 218,100 16,39	97,700 13.02 988,500 10.12 1,166.200	14,000 4,53 53,100 3.81 79,800 33.38	30,300 8.08 283,100 9.33 371,200 23.73	200 1.67 1,500 8.31 1,700	174,000 9.80 1,508,600 8.67 1,836,900
1965-66	22,000 7.41 141,400 6.43 171,400	66,400 10.58 605,300 9.12 706,900 14.38	11,900 4,62 50,300 4,22 69,900 27,98	24,900 7.33 181,700 7.28 252,700 28.11	200 1.88 1,200 6.57 1,400 20.06	125,400 8.19 979,900 7.81 1,202,400
1964-65	16,600 5.90 119,000 7.19 139,100	63,300 9.58 449,700 7.11 534,400 15.86	8,300 2,96 29,400 3.56 47,000 37.52	22,400 6.95 167,600 7.48 234,000 28.38	Not in survey	110,500 7.16 765,700 6.93 954,600 19.79
	Atlantic Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Mississippi Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Central Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Pacific Flyway Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Alaska Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved	Number taking coots Percent taking coots Total bag Average bag Total hunting mortality Percent unretrieved

a Numbers of successful hunters include only duck stamp purchasers while harvest and mortality include birds taken by waterfowl hunters of all ages.



Appendix B

Survey results for the 1976-77 season, which became available after work on the earlier data had been largely completed, are summarized in Tables B-1 and B-2. It is suspected that the 1976-77 results, and perhaps to a lesser degree the 1975-76 results, were affected by the unavoidable addition of Privacy Act statements on survey forms. A further intrusion into the survey in the form of a prohibition on the proper testing of these changes has thus far frustrated efforts to assess comparability with the results of previous surveys. Response rates for the survey mailing list were depressed by about 30% in 1976 when the Privacy Act statement was implemented for this phase of the survey, and some reduction, though much smaller, in questionnaire response rates likely occurred in both 1975 and 1976. A previous questionnaire change which increased response rates inflated all activity and harvest estimates, particularly those for coots (E. M. Martin, Office of Migratory Bird Management, Laurel, Maryland, unpublished report on changes in the Federal questionnaire survey dated 17 December 1970). This latest change, by depressing response rates, can thus be expected to have decreased activity and harvest estimates, perhaps most noticeably for coots. It is hoped that some evaluation can still be made and adjustments incorporated where necessary. In the meantime, the suspicion remains that activity and success figures for 1975 (to a slight degree) and 1976 (to a potentially very significant degree, at least for certain species) may be underestimates.

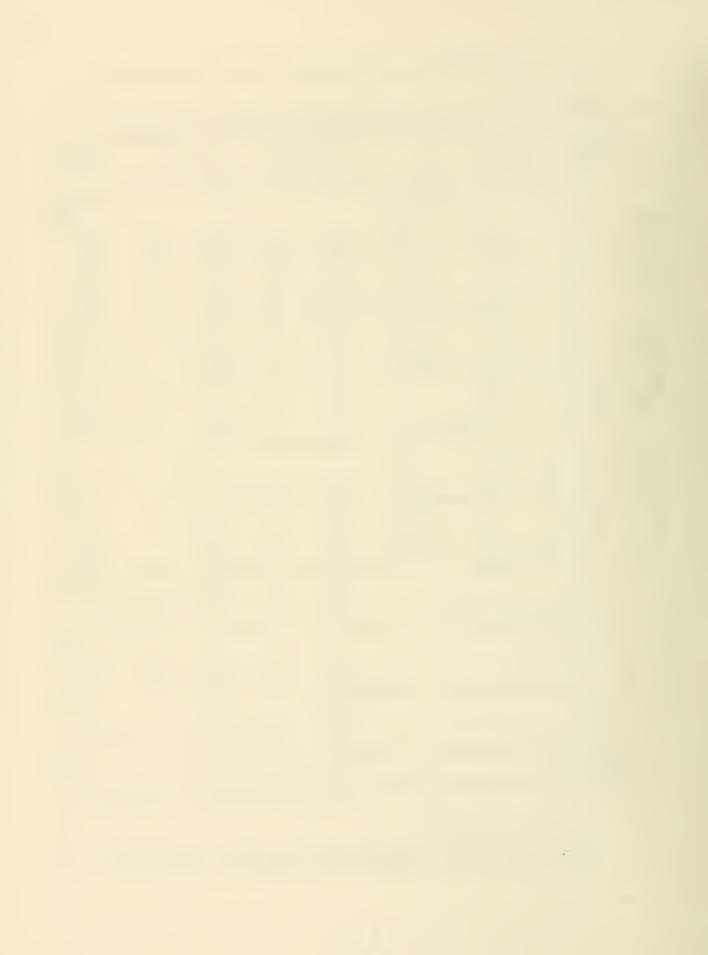
Table B-1. Mourning dove, white-winged dove, band-tailed pigeon, and sandhill crane hunting activity and success by duck stamp purchasers during the 1976-77 season.

Species,	Stamp	buyers	Birds	harvested	Species	Stamp	buyers	Birds h	narvested
Management Unit, and State		cipating Total	Per hunter	Total	and State		rotal	Per hunter	Total
Mourning Dove					White-winged	dove			
Eastern Alabama Delaware Florida Georgia Illinois Kentucky Louisiana Maryland Mississippi North Carolina Ohio Pennsylvania Rhode Island South Carolina Tennessee Virginia	33.2 43.4 31.7	9,400 5,200 16,900 8,500 27,700 8,300 39,500 12,600 19,200 16,500 13,400 30,400 1,100 14,300 15,600 10,000	45.3 20.3 39.2 46.0 21.5 38.1 25.8 17.7 39.2 31.5 19.0 13.8 13.9 35.3 36.0 28.7	424.3 104.8 663.1 391.8 593.9 316.8 1,017.6 223.9 753.9 518.8 253.5 418.4 15.4 504.4 562.1 286.9	New Mexico Texas Arizona California Nevada Total Band-tailed p California Oregon Washington Arizona New Mexico Colorado Utah Total	4.0 7.4 43.9 4.6 1.8 7.4 21geon 4.9 11.9 7.9 4.5 1.2 1.1 0.5 5.4	310 10,200 5,400 6,000 240 22,200 6,300 6,200 5,400 560 100 480 210 19,300	2.9 15.5 13.4 11.0 12.3 13.6 5.7 5.6 5.0 4.8 0.9 5.1 3.5 5.4	880 158,600 72,300 65,900 2,910 300,700 36,100 34,900 27,100 2,640 90 2,430 740 104,000
West Virginia Other Statesa Unit Total Central Arkansas Colorado Kansas Missouri Nebraska New Mexico Oklahoma Texas Wyoming Other Statesa Unit Total	46.3 1.9 26.8 37.0 37.7 59.7 38.5 47.2 60.8 54.9 55.3 25.4 1.5	21,600 17,100 34,400 22,600 20,300 4,700 18,400 76,600 2,600 4,300 222,500	30.8 19.3 23.5 24.2 23.3 30.6 30.8 31.2 15.0 12.3 27.0	14.7 114.8 7,179.3 663.9 328.5 806.4 545.2 474.7 142.8 567.5 2,388.5 38.6 52.8 6,008.8	Sandhill cran Alaska Texas New Mexico Colorado North Dakota Oklahoma South Dakota Montana Wyoming Total	5.5 2.5 6.5 1.1 2.4 0.0 0.2 0.2 0.9 2.0	1,020 3,420 500 510 1,350 300 0 70 100 7,300	1.1 1.9 0.5 0.3 0.3 2.4 0.5 2.0	1,080 6,660 250 130 380 730 0 30 190 9,500
Western Arizona California Idaho Nevada Oregon Utah Washington Unit Total	65.3 40.8 29.2 38.3 23.4 36.3 18.1 32.9	8,000 52,600 10,200 4,900 12,200 14,700 12,300 115,100 594,800	37.2 18.5 11.2 15.5 13.0 10.4 12.6 16.8	299.8 972.3 114.6 76.4 158.2 152.6 155.4 1,929.2					

^aNo open season on mourning dove in State where duck stamp was purchased, and no data are available for reassignment of hunters to State of harvest.

Table 8-2. Woodcock, snipe, sora. other rail, gallinule, and coot hunting activity and success by duck stamp purchasers during the 1976-77 season.

	Americar Stamp buyers participating	American woodcock buyers ipating Birds h	Birds	Woodcock Birds harvested	Stamp	Common up buyers fcipating	n Snipe 8irds	harvested	Stamp	Stamp buyers participating	Birds	Birds harvested	Stamp	Stamp buyers participating		Birds harvested	Stamp	Stamp buyers Stamp buyers participating 8ird	L/I	harvested	Stamp	Stamp buyers participating 8irds	81rds	harvested
Flyway and State	24	Total	Per hunter	Total	22	Total		er Total	24	Total	Per	r Total	3-2	Total	Per hunter	Total	2.0	Total	Per hunter	Total	3-2	Total	Per	r Total
Atlantic Connecticut Delaware Dist. of Columbia Florida Georgia	44.1 13.9 (5.7) ^a 6.5 10.6	6,000 1,700 (100) 2,000 1,400	3.4 2.5 (2.1) 4.3 6.0	20,100 4,200 (200) 8,900 8,600	1.2 2.8 2.8 (3.4) 25.3 10.6	200 300 (100) 8,000	3.4 2.1 (7.0) 14.4 6.4	500 700 (400) 114,700	1.6	200 200 200 200 200 200 200 200 200 200	3.8	001,1	0.9	100 200 100 100 100 100 100 100 100 100	3.6	200 300 3,700 1,800	0.2 0 (0) 1.6	tr. (0) 500	0 (-) (-)	0 0 (0) 5.700	1.3	200 200 (tr.) 5,900	3.6 3.6 3.6 7.11 9.2	69
Maryland Massachusetts New Hampshire New Jersey	35.0 46.2 28.8	3,700 7,800 4,800 8,300		35,400 2,900 28,500 16,400 37,900		300				100 200 800 800 800		2,600 500 3,000	_	200 200 100 (tr.)	(8.0)			tr. (200)	5.0	200 (0)		200 200 300 1,600		
New York North Carolina Pennsylvania Rhode Island South Carolina	22.9 10.4 26.7 28.3	2,900 18,700 1,000 2,000		2,600 7,300		1,300				2001		2,400 100 100 1,700		300 1,200 0 tr. 1,600	2.0			00000	3.0	90000		3,200 3,200 4,900 2,600		
Vermont Virginia West Virginia Flyway total	23.4 23.4 21.4	2,100 500 89,500		321,600		900 900 100 19,700		_		300		1,100		1,000 tr. 7,900	20.3			tr. 1,000	3.0	100 tr. 7,100		1,700		
Mississippi Alabama Arkansas 1111nois Indiana Iowa Kentucky		1,500 2,700 4,100 2,700 2,600 1,200		5,800 8,200 10,500 10,600 5,000 4,300	15.4 4.2 2.1 7.8 3.9	2,400 2,400 1,300 1,300 4,200 14,900	~4m4mm	17,100 10,000 4,700 5,300 15,600 1,700	2.7.2	1,200	2.58	tr. 100 3,000 2,100 3,300 6,200	0.3	200 200 200 200 200 200 200 200 200 200	2.0	300 200 200 200 600 64,300	(0.1) (0.1) (0) (0) 2.8	tr. 0 (100) 100 (0) (0) (0) (0) 100	1.0 (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.0) (2.	(200) (200) (200) (200) (200) (200) (200)	8.00 8.20 8.80 8.90 8.90 8.80	1,600 2,400 5,300 1,300 3,700 24,200 6,900	8.1 8.1 8.1 2.1 2.1 4.5 4.5	
Michigan Minnesota Missisippi Missouri Obio Tennessee Wisconsin Flyway total	38.0 6.4 9.9 14.0 4.8 26.2	30,700 7,900 2,900 2,400 5,600 1,300 35,300	2.3 2.3 3.7 3.6 4.1	128,600 18,000 17,700 8,700 14,900 4,100 125,500 483,400	6.7 8.9 1.6 4.6 7.9	5,400 6,300 2,600 1,700 1,200 10,600 55,700	8.52 3.34 4.54 6.64 6.64	18,300 26,600 22,000 3,200 6,100 4,700 46,500 326,700	0.4 0.3 0.5 0.5 0.5	100 500 100 200 600 200 700 5,600	2.7 1.0 18.3 3.1 1.0 4.2	1,400 100 4,000 1,900 1,900 23,300	0.4 0.0 0.1 0.1 0.1	400 400 400 200 200 tr.	5.3 5.3 7.3	3,400 2,700 1,400 1,200 1,500 76,000	0.0000000000000000000000000000000000000	100 100 300 300 4,200	3.0	1,000 1,000 1,000 1,000 1,000	25 50 50 50 50 50 50 50 50 50 50 50 50 50	9,300 1,500 2,200 4,200 1,500 18,100 82,800	600000000	221, 221, 10, 91,
Central Colorado Kansas Montana Nebraska New Mexico North Dakota			(2.0)	1,100 (500) (200) (200)	2.0	1,200 100 100 900 200 1,100	5.1 1.0 1.2 4.5	3,000 2,700 100 4,900 300 4,700	000000000000000000000000000000000000000	222200	0.5	:669866	[.00:000]	. · · · · · · · · · · · · · · · · · · ·	2: [2][3	.1000000000000000000000000000000000000	66666	666600		5656060	33.1	1,000 1,800 1,900 2,600	2.5 3.5 3.5 7.7	
Oklahoma South Dakota Texas Wyoming Flyway total	(0.2) (0.2) (0) (0)	3,200 (0) 5,400	3.1 3.8 () 3.2	2,800 (100) 12,200 (0) 16,900		1,000 400 6,000 100	5.5	3,300 2,200 40,100 600 61,900	(0.2) 0.4 0.2	(100) 500 0 900	2.4	(100) (100) (1,200) (1,500)	0.000	1,400	4.8	6,700		3603	4.3	1,300	10004	1,600 7,000 200 18,200	o de min	
Pacific Arizona Cal forma Colovado Colovado Montana Montana Nevada New Mexico Pregon Hishington Mashington Mishington Fi veay torial	(Sea	(Season closed flyway-wide)	ed flyw	ay-wide)	2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.00 - 2.	300 8,500 1,200 700 500 1,600 2,800 0	3.6 3.5 3.9 5.0 5.0 5.0	70,400 70,400 5,300 2,400 1,800 15,300 14,300 14,000	(Season		closed flyway	y-wide)	(5e4	(Season closed		flyway-wide)	000000000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	21.0	500 200 200 200 (0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.7 10.6 5.9 6.7 7.2 9.2 9.2 9.2 7.7	1,100 13,600 1,900 1,000 1,000 900 900 1,000 3,800 3,700 2,800 100 2,200	4.7 13.3 13.3 13.3 6.0 6.0 6.0 8.9 3.9	
Alaska			->		2.8	200	7.9	4,100						-,			(0)	(0)	()	(0)	1.6	300	5.5	
Grand Total	12.7 2	212,100	3.9	822 000	5.	106.300	2	670 500	0	9.200	٧ ٢	39.100	2	19.800	8.4	165,600	0.3	5,800	11.0	63,500	7.6	157,500	8.1	1,273,





As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



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